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Your Touchstone Energy® Cooperative 

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

2014 INTEGRATED RESOURCE PLAN              )  
OF BIG RIVERS ELECTRIC CORPORATION      ) Case No. 2014-00166

Attachments for Responses to Item Nos. 31 and 35d of  
Ben Taylor and the Sierra Club's Initial Request for Information  
dated August 20, 2014  
(Provided on electronic media)

*Item 31 – Indiana Hub Day Ahead LMPs*

*Item 35d – Attachment Y-2 Study Report: Green Unit 1 & 2,  
September 30, 2013*

FILED: September 10, 2014

**BIG RIVERS ELECTRIC CORPORATION**

**2014 INTEGRATED RESOURCE PLAN  
OF BIG RIVERS ELECTRIC CORPORATION  
CASE NO. 2014-00166**

**Response to Ben Taylor and Sierra Club's  
Initial Request for Information  
Dated August 20, 2014**

**September 10, 2014**

- 1   **Item 31)**   Please refer to Appendix G of the IRP filing. With regards to the market  
2   energy prices presented therein:  
3       a. State whether the values presented in confidential Appendix G are in real or  
4           nominal dollars. If the values are in nominal dollars, identify what inflation rate  
5           is assumed.  
6       b. Explain how the forecasted market energy prices presented in confidential  
7           Appendix G were developed.  
8       c. Identify and produce any market energy price forecast relied on in developing  
9           the prices presented in confidential Appendix G.  
10      d. Identify the corresponding actual market energy prices for each month of  
11           January through July 2014.

12  
13   **Response)**

- 14      a. Values presented in confidential Appendix G are shown in nominal dollars. The  
15           inflation assumptions are [REDACTED] and [REDACTED] for 2014 and 2015, then [REDACTED] for 2016 to  
16           the end of the forecast.  
17      b. Forecasted market energy prices in confidential Appendix G for energy and for  
18           capacity were developed using Wood Mackenzie North America power markets long

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1 term outlook equilibrium prices. The Wood Mackenzie North America power  
2 markets long term outlook is an equilibrium model that simulates both the supply and  
3 demand sides of the energy market. This includes simulating the interaction across  
4 the fuel commodities gas, coal, and oil. The model takes into account all announced  
5 plant retirements and construction, renewable portfolio standards, and emissions  
6 regulation. As the market dictates, the model builds generic generation resources at  
7 the margin to maintain reliability vis-à-vis reserve margins. Various economic  
8 assumptions including GDP growth and inflation are also included. The model  
9 produces three layers of prices: short run marginal cost prices which represent the  
10 production cost of the marginal MW, the scarcity premium above short run marginal  
11 cost that generators can expect to receive in the energy market that covers fixed costs  
12 and bid mark-ups, and the capacity price required for new market entry. By  
13 simulating the dispatch of all these inputs the Wood Mackenzie long term outlook  
14 arrives at the equilibrium prices.

- 15 c. See Big Rivers response to AG 1-29.  
16 d. Indiana Hub Day Ahead LMP's are included in the folder SC 1-31 on electronic  
17 media accompanying these responses.

18

**BIG RIVERS ELECTRIC CORPORATION**

**2014 INTEGRATED RESOURCE PLAN  
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CASE NO. 2014-00166**

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Initial Request for Information  
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**September 10, 2014**

1    **Witness)**      Marlene S. Parsley

Trade Date	Price Type	Transaction Poin	Per End	Price
1/1/2014	DA LMP - Price	INDIANA.HUB	1:00	27.78
1/1/2014	DA LMP - Price	INDIANA.HUB	2:00	26.95
1/1/2014	DA LMP - Price	INDIANA.HUB	3:00	26.47
1/1/2014	DA LMP - Price	INDIANA.HUB	4:00	26.27
1/1/2014	DA LMP - Price	INDIANA.HUB	5:00	25.73
1/1/2014	DA LMP - Price	INDIANA.HUB	6:00	25.73
1/1/2014	DA LMP - Price	INDIANA.HUB	7:00	27.32
1/1/2014	DA LMP - Price	INDIANA.HUB	8:00	28.66
1/1/2014	DA LMP - Price	INDIANA.HUB	9:00	29.14
1/1/2014	DA LMP - Price	INDIANA.HUB	10:00	29.92
1/1/2014	DA LMP - Price	INDIANA.HUB	11:00	30.45
1/1/2014	DA LMP - Price	INDIANA.HUB	12:00	30.45
1/1/2014	DA LMP - Price	INDIANA.HUB	13:00	29.84
1/1/2014	DA LMP - Price	INDIANA.HUB	14:00	28.2
1/1/2014	DA LMP - Price	INDIANA.HUB	15:00	28.14
1/1/2014	DA LMP - Price	INDIANA.HUB	16:00	27.58
1/1/2014	DA LMP - Price	INDIANA.HUB	17:00	28.97
1/1/2014	DA LMP - Price	INDIANA.HUB	18:00	37.55
1/1/2014	DA LMP - Price	INDIANA.HUB	19:00	43.52
1/1/2014	DA LMP - Price	INDIANA.HUB	20:00	39.17
1/1/2014	DA LMP - Price	INDIANA.HUB	21:00	40.41
1/1/2014	DA LMP - Price	INDIANA.HUB	22:00	36.6
1/1/2014	DA LMP - Price	INDIANA.HUB	23:00	29.59
1/1/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.38
1/2/2014	DA LMP - Price	INDIANA.HUB	1:00	26.86
1/2/2014	DA LMP - Price	INDIANA.HUB	2:00	26.36
1/2/2014	DA LMP - Price	INDIANA.HUB	3:00	26.2
1/2/2014	DA LMP - Price	INDIANA.HUB	4:00	26.24
1/2/2014	DA LMP - Price	INDIANA.HUB	5:00	26.78
1/2/2014	DA LMP - Price	INDIANA.HUB	6:00	27.43
1/2/2014	DA LMP - Price	INDIANA.HUB	7:00	34.15
1/2/2014	DA LMP - Price	INDIANA.HUB	8:00	39.51
1/2/2014	DA LMP - Price	INDIANA.HUB	9:00	43.31
1/2/2014	DA LMP - Price	INDIANA.HUB	10:00	43.25
1/2/2014	DA LMP - Price	INDIANA.HUB	11:00	44.09
1/2/2014	DA LMP - Price	INDIANA.HUB	12:00	44.18
1/2/2014	DA LMP - Price	INDIANA.HUB	13:00	41.19
1/2/2014	DA LMP - Price	INDIANA.HUB	14:00	39.49
1/2/2014	DA LMP - Price	INDIANA.HUB	15:00	36.24
1/2/2014	DA LMP - Price	INDIANA.HUB	16:00	35.58
1/2/2014	DA LMP - Price	INDIANA.HUB	17:00	36.22
1/2/2014	DA LMP - Price	INDIANA.HUB	18:00	46.63
1/2/2014	DA LMP - Price	INDIANA.HUB	19:00	60.04
1/2/2014	DA LMP - Price	INDIANA.HUB	20:00	55.47
1/2/2014	DA LMP - Price	INDIANA.HUB	21:00	51.25
1/2/2014	DA LMP - Price	INDIANA.HUB	22:00	46.86

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Trade Date	Price Type	Transaction Point	Per End	Price
1/2/2014	DA LMP - Price	INDIANA.HUB	23:00	41.68
1/2/2014	DA LMP - Price	INDIANA.HUB	24:00:00	37.39
1/3/2014	DA LMP - Price	INDIANA.HUB	1:00	32.44
1/3/2014	DA LMP - Price	INDIANA.HUB	2:00	31.6
1/3/2014	DA LMP - Price	INDIANA.HUB	3:00	30.68
1/3/2014	DA LMP - Price	INDIANA.HUB	4:00	29.8
1/3/2014	DA LMP - Price	INDIANA.HUB	5:00	30.67
1/3/2014	DA LMP - Price	INDIANA.HUB	6:00	34.04
1/3/2014	DA LMP - Price	INDIANA.HUB	7:00	41.92
1/3/2014	DA LMP - Price	INDIANA.HUB	8:00	47.96
1/3/2014	DA LMP - Price	INDIANA.HUB	9:00	50.06
1/3/2014	DA LMP - Price	INDIANA.HUB	10:00	46.46
1/3/2014	DA LMP - Price	INDIANA.HUB	11:00	41.96
1/3/2014	DA LMP - Price	INDIANA.HUB	12:00	40.15
1/3/2014	DA LMP - Price	INDIANA.HUB	13:00	38.66
1/3/2014	DA LMP - Price	INDIANA.HUB	14:00	37.51
1/3/2014	DA LMP - Price	INDIANA.HUB	15:00	33.69
1/3/2014	DA LMP - Price	INDIANA.HUB	16:00	31.28
1/3/2014	DA LMP - Price	INDIANA.HUB	17:00	31.7
1/3/2014	DA LMP - Price	INDIANA.HUB	18:00	40.15
1/3/2014	DA LMP - Price	INDIANA.HUB	19:00	42.52
1/3/2014	DA LMP - Price	INDIANA.HUB	20:00	39.48
1/3/2014	DA LMP - Price	INDIANA.HUB	21:00	39.76
1/3/2014	DA LMP - Price	INDIANA.HUB	22:00	35.73
1/3/2014	DA LMP - Price	INDIANA.HUB	23:00	31.69
1/3/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.03
1/4/2014	DA LMP - Price	INDIANA.HUB	1:00	30.49
1/4/2014	DA LMP - Price	INDIANA.HUB	2:00	31.53
1/4/2014	DA LMP - Price	INDIANA.HUB	3:00	29.87
1/4/2014	DA LMP - Price	INDIANA.HUB	4:00	29.09
1/4/2014	DA LMP - Price	INDIANA.HUB	5:00	28.8
1/4/2014	DA LMP - Price	INDIANA.HUB	6:00	29.6
1/4/2014	DA LMP - Price	INDIANA.HUB	7:00	33.86
1/4/2014	DA LMP - Price	INDIANA.HUB	8:00	40.01
1/4/2014	DA LMP - Price	INDIANA.HUB	9:00	45.73
1/4/2014	DA LMP - Price	INDIANA.HUB	10:00	42.26
1/4/2014	DA LMP - Price	INDIANA.HUB	11:00	41.17
1/4/2014	DA LMP - Price	INDIANA.HUB	12:00	38.44
1/4/2014	DA LMP - Price	INDIANA.HUB	13:00	31.87
1/4/2014	DA LMP - Price	INDIANA.HUB	14:00	29.81
1/4/2014	DA LMP - Price	INDIANA.HUB	15:00	27.33
1/4/2014	DA LMP - Price	INDIANA.HUB	16:00	27.53
1/4/2014	DA LMP - Price	INDIANA.HUB	17:00	27.96
1/4/2014	DA LMP - Price	INDIANA.HUB	18:00	33.23
1/4/2014	DA LMP - Price	INDIANA.HUB	19:00	40.88
1/4/2014	DA LMP - Price	INDIANA.HUB	20:00	38.69

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Trade Date	Price Type	Transaction Point	Per End	Price
1/4/2014	DA LMP - Price	INDIANA.HUB	21:00	36.84
1/4/2014	DA LMP - Price	INDIANA.HUB	22:00	33.28
1/4/2014	DA LMP - Price	INDIANA.HUB	23:00	29.67
1/4/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.75
1/5/2014	DA LMP - Price	INDIANA.HUB	1:00	27.91
1/5/2014	DA LMP - Price	INDIANA.HUB	2:00	27.14
1/5/2014	DA LMP - Price	INDIANA.HUB	3:00	26.83
1/5/2014	DA LMP - Price	INDIANA.HUB	4:00	26.29
1/5/2014	DA LMP - Price	INDIANA.HUB	5:00	25.92
1/5/2014	DA LMP - Price	INDIANA.HUB	6:00	25.94
1/5/2014	DA LMP - Price	INDIANA.HUB	7:00	26.06
1/5/2014	DA LMP - Price	INDIANA.HUB	8:00	27.27
1/5/2014	DA LMP - Price	INDIANA.HUB	9:00	27.89
1/5/2014	DA LMP - Price	INDIANA.HUB	10:00	29.76
1/5/2014	DA LMP - Price	INDIANA.HUB	11:00	30.15
1/5/2014	DA LMP - Price	INDIANA.HUB	12:00	29.12
1/5/2014	DA LMP - Price	INDIANA.HUB	13:00	28.73
1/5/2014	DA LMP - Price	INDIANA.HUB	14:00	28.37
1/5/2014	DA LMP - Price	INDIANA.HUB	15:00	27.85
1/5/2014	DA LMP - Price	INDIANA.HUB	16:00	28.26
1/5/2014	DA LMP - Price	INDIANA.HUB	17:00	30
1/5/2014	DA LMP - Price	INDIANA.HUB	18:00	39.81
1/5/2014	DA LMP - Price	INDIANA.HUB	19:00	48.98
1/5/2014	DA LMP - Price	INDIANA.HUB	20:00	45.65
1/5/2014	DA LMP - Price	INDIANA.HUB	21:00	43.91
1/5/2014	DA LMP - Price	INDIANA.HUB	22:00	40.01
1/5/2014	DA LMP - Price	INDIANA.HUB	23:00	32.71
1/5/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.35
1/6/2014	DA LMP - Price	INDIANA.HUB	1:00	29.62
1/6/2014	DA LMP - Price	INDIANA.HUB	2:00	29.54
1/6/2014	DA LMP - Price	INDIANA.HUB	3:00	29.22
1/6/2014	DA LMP - Price	INDIANA.HUB	4:00	29.55
1/6/2014	DA LMP - Price	INDIANA.HUB	5:00	30.51
1/6/2014	DA LMP - Price	INDIANA.HUB	6:00	37.97
1/6/2014	DA LMP - Price	INDIANA.HUB	7:00	48.43
1/6/2014	DA LMP - Price	INDIANA.HUB	8:00	66.09
1/6/2014	DA LMP - Price	INDIANA.HUB	9:00	70.97
1/6/2014	DA LMP - Price	INDIANA.HUB	10:00	67.53
1/6/2014	DA LMP - Price	INDIANA.HUB	11:00	63
1/6/2014	DA LMP - Price	INDIANA.HUB	12:00	57.21
1/6/2014	DA LMP - Price	INDIANA.HUB	13:00	49.69
1/6/2014	DA LMP - Price	INDIANA.HUB	14:00	44.35
1/6/2014	DA LMP - Price	INDIANA.HUB	15:00	42
1/6/2014	DA LMP - Price	INDIANA.HUB	16:00	41.59
1/6/2014	DA LMP - Price	INDIANA.HUB	17:00	45.79
1/6/2014	DA LMP - Price	INDIANA.HUB	18:00	62.04

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Trade Date	Price Type	Transaction Point	Per End	Price
1/6/2014	DA LMP - Price	INDIANA.HUB	19:00	85.51
1/6/2014	DA LMP - Price	INDIANA.HUB	20:00	82
1/6/2014	DA LMP - Price	INDIANA.HUB	21:00	75.5
1/6/2014	DA LMP - Price	INDIANA.HUB	22:00	63.87
1/6/2014	DA LMP - Price	INDIANA.HUB	23:00	54.19
1/6/2014	DA LMP - Price	INDIANA.HUB	24:00:00	44.28
1/7/2014	DA LMP - Price	INDIANA.HUB	1:00	79.36
1/7/2014	DA LMP - Price	INDIANA.HUB	2:00	66.68
1/7/2014	DA LMP - Price	INDIANA.HUB	3:00	69.2
1/7/2014	DA LMP - Price	INDIANA.HUB	4:00	66.99
1/7/2014	DA LMP - Price	INDIANA.HUB	5:00	75.1
1/7/2014	DA LMP - Price	INDIANA.HUB	6:00	80.92
1/7/2014	DA LMP - Price	INDIANA.HUB	7:00	83.21
1/7/2014	DA LMP - Price	INDIANA.HUB	8:00	116.85
1/7/2014	DA LMP - Price	INDIANA.HUB	9:00	124.16
1/7/2014	DA LMP - Price	INDIANA.HUB	10:00	107.53
1/7/2014	DA LMP - Price	INDIANA.HUB	11:00	100.02
1/7/2014	DA LMP - Price	INDIANA.HUB	12:00	89.53
1/7/2014	DA LMP - Price	INDIANA.HUB	13:00	84.26
1/7/2014	DA LMP - Price	INDIANA.HUB	14:00	79.09
1/7/2014	DA LMP - Price	INDIANA.HUB	15:00	74.33
1/7/2014	DA LMP - Price	INDIANA.HUB	16:00	69.29
1/7/2014	DA LMP - Price	INDIANA.HUB	17:00	76.35
1/7/2014	DA LMP - Price	INDIANA.HUB	18:00	90.84
1/7/2014	DA LMP - Price	INDIANA.HUB	19:00	113.33
1/7/2014	DA LMP - Price	INDIANA.HUB	20:00	109.29
1/7/2014	DA LMP - Price	INDIANA.HUB	21:00	105.97
1/7/2014	DA LMP - Price	INDIANA.HUB	22:00	88.9
1/7/2014	DA LMP - Price	INDIANA.HUB	23:00	80.03
1/7/2014	DA LMP - Price	INDIANA.HUB	24:00:00	69.76
1/8/2014	DA LMP - Price	INDIANA.HUB	1:00	76.06
1/8/2014	DA LMP - Price	INDIANA.HUB	2:00	57.97
1/8/2014	DA LMP - Price	INDIANA.HUB	3:00	52.34
1/8/2014	DA LMP - Price	INDIANA.HUB	4:00	50.53
1/8/2014	DA LMP - Price	INDIANA.HUB	5:00	54.02
1/8/2014	DA LMP - Price	INDIANA.HUB	6:00	59.22
1/8/2014	DA LMP - Price	INDIANA.HUB	7:00	79.27
1/8/2014	DA LMP - Price	INDIANA.HUB	8:00	115.11
1/8/2014	DA LMP - Price	INDIANA.HUB	9:00	115
1/8/2014	DA LMP - Price	INDIANA.HUB	10:00	100.82
1/8/2014	DA LMP - Price	INDIANA.HUB	11:00	87.35
1/8/2014	DA LMP - Price	INDIANA.HUB	12:00	82.7
1/8/2014	DA LMP - Price	INDIANA.HUB	13:00	73.46
1/8/2014	DA LMP - Price	INDIANA.HUB	14:00	69.57
1/8/2014	DA LMP - Price	INDIANA.HUB	15:00	61.28
1/8/2014	DA LMP - Price	INDIANA.HUB	16:00	55.22

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Trade Date	Price Type	Transaction Point	Per End	Price
1/8/2014	DA LMP - Price	INDIANA.HUB	17:00	54.25
1/8/2014	DA LMP - Price	INDIANA.HUB	18:00	74.28
1/8/2014	DA LMP - Price	INDIANA.HUB	19:00	97.17
1/8/2014	DA LMP - Price	INDIANA.HUB	20:00	94.1
1/8/2014	DA LMP - Price	INDIANA.HUB	21:00	85.4
1/8/2014	DA LMP - Price	INDIANA.HUB	22:00	72.24
1/8/2014	DA LMP - Price	INDIANA.HUB	23:00	59.53
1/8/2014	DA LMP - Price	INDIANA.HUB	24:00:00	42.06
1/9/2014	DA LMP - Price	INDIANA.HUB	1:00	42.38
1/9/2014	DA LMP - Price	INDIANA.HUB	2:00	40.95
1/9/2014	DA LMP - Price	INDIANA.HUB	3:00	38.69
1/9/2014	DA LMP - Price	INDIANA.HUB	4:00	39.35
1/9/2014	DA LMP - Price	INDIANA.HUB	5:00	41.45
1/9/2014	DA LMP - Price	INDIANA.HUB	6:00	47.5
1/9/2014	DA LMP - Price	INDIANA.HUB	7:00	61
1/9/2014	DA LMP - Price	INDIANA.HUB	8:00	67.19
1/9/2014	DA LMP - Price	INDIANA.HUB	9:00	64.93
1/9/2014	DA LMP - Price	INDIANA.HUB	10:00	56.71
1/9/2014	DA LMP - Price	INDIANA.HUB	11:00	50.58
1/9/2014	DA LMP - Price	INDIANA.HUB	12:00	46.45
1/9/2014	DA LMP - Price	INDIANA.HUB	13:00	45.4
1/9/2014	DA LMP - Price	INDIANA.HUB	14:00	41.77
1/9/2014	DA LMP - Price	INDIANA.HUB	15:00	38.33
1/9/2014	DA LMP - Price	INDIANA.HUB	16:00	37.65
1/9/2014	DA LMP - Price	INDIANA.HUB	17:00	39.61
1/9/2014	DA LMP - Price	INDIANA.HUB	18:00	49.67
1/9/2014	DA LMP - Price	INDIANA.HUB	19:00	56.15
1/9/2014	DA LMP - Price	INDIANA.HUB	20:00	51.48
1/9/2014	DA LMP - Price	INDIANA.HUB	21:00	47.09
1/9/2014	DA LMP - Price	INDIANA.HUB	22:00	41.04
1/9/2014	DA LMP - Price	INDIANA.HUB	23:00	35.96
1/9/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.36
1/10/2014	DA LMP - Price	INDIANA.HUB	1:00	27.4
1/10/2014	DA LMP - Price	INDIANA.HUB	2:00	26.66
1/10/2014	DA LMP - Price	INDIANA.HUB	3:00	26.23
1/10/2014	DA LMP - Price	INDIANA.HUB	4:00	26
1/10/2014	DA LMP - Price	INDIANA.HUB	5:00	26.19
1/10/2014	DA LMP - Price	INDIANA.HUB	6:00	26.27
1/10/2014	DA LMP - Price	INDIANA.HUB	7:00	30.79
1/10/2014	DA LMP - Price	INDIANA.HUB	8:00	36.51
1/10/2014	DA LMP - Price	INDIANA.HUB	9:00	37.07
1/10/2014	DA LMP - Price	INDIANA.HUB	10:00	37.7
1/10/2014	DA LMP - Price	INDIANA.HUB	11:00	36.87
1/10/2014	DA LMP - Price	INDIANA.HUB	12:00	36.31
1/10/2014	DA LMP - Price	INDIANA.HUB	13:00	34.45
1/10/2014	DA LMP - Price	INDIANA.HUB	14:00	31.54

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Trade Date	Price Type	Transaction Point	Per End	Price
1/10/2014	DA LMP - Price	INDIANA.HUB	15:00	31.25
1/10/2014	DA LMP - Price	INDIANA.HUB	16:00	29.18
1/10/2014	DA LMP - Price	INDIANA.HUB	17:00	29.32
1/10/2014	DA LMP - Price	INDIANA.HUB	18:00	36.56
1/10/2014	DA LMP - Price	INDIANA.HUB	19:00	38.99
1/10/2014	DA LMP - Price	INDIANA.HUB	20:00	38.32
1/10/2014	DA LMP - Price	INDIANA.HUB	21:00	35.61
1/10/2014	DA LMP - Price	INDIANA.HUB	22:00	31.75
1/10/2014	DA LMP - Price	INDIANA.HUB	23:00	27.72
1/10/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.93
1/11/2014	DA LMP - Price	INDIANA.HUB	1:00	26.68
1/11/2014	DA LMP - Price	INDIANA.HUB	2:00	25.72
1/11/2014	DA LMP - Price	INDIANA.HUB	3:00	25.32
1/11/2014	DA LMP - Price	INDIANA.HUB	4:00	24.73
1/11/2014	DA LMP - Price	INDIANA.HUB	5:00	24.45
1/11/2014	DA LMP - Price	INDIANA.HUB	6:00	25
1/11/2014	DA LMP - Price	INDIANA.HUB	7:00	26.01
1/11/2014	DA LMP - Price	INDIANA.HUB	8:00	29.16
1/11/2014	DA LMP - Price	INDIANA.HUB	9:00	31.72
1/11/2014	DA LMP - Price	INDIANA.HUB	10:00	34.28
1/11/2014	DA LMP - Price	INDIANA.HUB	11:00	34.76
1/11/2014	DA LMP - Price	INDIANA.HUB	12:00	32.43
1/11/2014	DA LMP - Price	INDIANA.HUB	13:00	31.07
1/11/2014	DA LMP - Price	INDIANA.HUB	14:00	28.68
1/11/2014	DA LMP - Price	INDIANA.HUB	15:00	27.51
1/11/2014	DA LMP - Price	INDIANA.HUB	16:00	27.16
1/11/2014	DA LMP - Price	INDIANA.HUB	17:00	28.63
1/11/2014	DA LMP - Price	INDIANA.HUB	18:00	34.71
1/11/2014	DA LMP - Price	INDIANA.HUB	19:00	38.8
1/11/2014	DA LMP - Price	INDIANA.HUB	20:00	35.81
1/11/2014	DA LMP - Price	INDIANA.HUB	21:00	35.52
1/11/2014	DA LMP - Price	INDIANA.HUB	22:00	31.59
1/11/2014	DA LMP - Price	INDIANA.HUB	23:00	27.87
1/11/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.43
1/12/2014	DA LMP - Price	INDIANA.HUB	1:00	26.44
1/12/2014	DA LMP - Price	INDIANA.HUB	2:00	26.27
1/12/2014	DA LMP - Price	INDIANA.HUB	3:00	25.43
1/12/2014	DA LMP - Price	INDIANA.HUB	4:00	25.09
1/12/2014	DA LMP - Price	INDIANA.HUB	5:00	24.8
1/12/2014	DA LMP - Price	INDIANA.HUB	6:00	24.9
1/12/2014	DA LMP - Price	INDIANA.HUB	7:00	25.96
1/12/2014	DA LMP - Price	INDIANA.HUB	8:00	27.68
1/12/2014	DA LMP - Price	INDIANA.HUB	9:00	26.9
1/12/2014	DA LMP - Price	INDIANA.HUB	10:00	27.64
1/12/2014	DA LMP - Price	INDIANA.HUB	11:00	27.16
1/12/2014	DA LMP - Price	INDIANA.HUB	12:00	26.94

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Trade Date	Price Type	Transaction Point	Per End	Price
1/12/2014	DA LMP - Price	INDIANA.HUB	13:00	26.9
1/12/2014	DA LMP - Price	INDIANA.HUB	14:00	26.16
1/12/2014	DA LMP - Price	INDIANA.HUB	15:00	26.12
1/12/2014	DA LMP - Price	INDIANA.HUB	16:00	25.95
1/12/2014	DA LMP - Price	INDIANA.HUB	17:00	26.72
1/12/2014	DA LMP - Price	INDIANA.HUB	18:00	35.07
1/12/2014	DA LMP - Price	INDIANA.HUB	19:00	35.95
1/12/2014	DA LMP - Price	INDIANA.HUB	20:00	36.66
1/12/2014	DA LMP - Price	INDIANA.HUB	21:00	34.38
1/12/2014	DA LMP - Price	INDIANA.HUB	22:00	28.42
1/12/2014	DA LMP - Price	INDIANA.HUB	23:00	26.49
1/12/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.15
1/13/2014	DA LMP - Price	INDIANA.HUB	1:00	25.25
1/13/2014	DA LMP - Price	INDIANA.HUB	2:00	24.76
1/13/2014	DA LMP - Price	INDIANA.HUB	3:00	24.37
1/13/2014	DA LMP - Price	INDIANA.HUB	4:00	24.36
1/13/2014	DA LMP - Price	INDIANA.HUB	5:00	24.84
1/13/2014	DA LMP - Price	INDIANA.HUB	6:00	27.39
1/13/2014	DA LMP - Price	INDIANA.HUB	7:00	34.98
1/13/2014	DA LMP - Price	INDIANA.HUB	8:00	38.75
1/13/2014	DA LMP - Price	INDIANA.HUB	9:00	36.57
1/13/2014	DA LMP - Price	INDIANA.HUB	10:00	35.32
1/13/2014	DA LMP - Price	INDIANA.HUB	11:00	36.33
1/13/2014	DA LMP - Price	INDIANA.HUB	12:00	34.85
1/13/2014	DA LMP - Price	INDIANA.HUB	13:00	32.85
1/13/2014	DA LMP - Price	INDIANA.HUB	14:00	29.68
1/13/2014	DA LMP - Price	INDIANA.HUB	15:00	29.28
1/13/2014	DA LMP - Price	INDIANA.HUB	16:00	28.11
1/13/2014	DA LMP - Price	INDIANA.HUB	17:00	29.76
1/13/2014	DA LMP - Price	INDIANA.HUB	18:00	38.45
1/13/2014	DA LMP - Price	INDIANA.HUB	19:00	38.79
1/13/2014	DA LMP - Price	INDIANA.HUB	20:00	38.91
1/13/2014	DA LMP - Price	INDIANA.HUB	21:00	36.82
1/13/2014	DA LMP - Price	INDIANA.HUB	22:00	31.01
1/13/2014	DA LMP - Price	INDIANA.HUB	23:00	28.15
1/13/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.93
1/14/2014	DA LMP - Price	INDIANA.HUB	1:00	26.4
1/14/2014	DA LMP - Price	INDIANA.HUB	2:00	25.07
1/14/2014	DA LMP - Price	INDIANA.HUB	3:00	25.61
1/14/2014	DA LMP - Price	INDIANA.HUB	4:00	24.73
1/14/2014	DA LMP - Price	INDIANA.HUB	5:00	24.91
1/14/2014	DA LMP - Price	INDIANA.HUB	6:00	26.89
1/14/2014	DA LMP - Price	INDIANA.HUB	7:00	34.58
1/14/2014	DA LMP - Price	INDIANA.HUB	8:00	37.05
1/14/2014	DA LMP - Price	INDIANA.HUB	9:00	32.27
1/14/2014	DA LMP - Price	INDIANA.HUB	10:00	31.38

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Trade Date	Price Type	Transaction Point	Per End	Price
1/14/2014	DA LMP - Price	INDIANA.HUB	11:00	31.35
1/14/2014	DA LMP - Price	INDIANA.HUB	12:00	29.81
1/14/2014	DA LMP - Price	INDIANA.HUB	13:00	29.27
1/14/2014	DA LMP - Price	INDIANA.HUB	14:00	29.66
1/14/2014	DA LMP - Price	INDIANA.HUB	15:00	27.38
1/14/2014	DA LMP - Price	INDIANA.HUB	16:00	27.32
1/14/2014	DA LMP - Price	INDIANA.HUB	17:00	28.32
1/14/2014	DA LMP - Price	INDIANA.HUB	18:00	32.37
1/14/2014	DA LMP - Price	INDIANA.HUB	19:00	39.82
1/14/2014	DA LMP - Price	INDIANA.HUB	20:00	36.46
1/14/2014	DA LMP - Price	INDIANA.HUB	21:00	36.19
1/14/2014	DA LMP - Price	INDIANA.HUB	22:00	30.45
1/14/2014	DA LMP - Price	INDIANA.HUB	23:00	29.63
1/14/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.45
1/15/2014	DA LMP - Price	INDIANA.HUB	1:00	27.06
1/15/2014	DA LMP - Price	INDIANA.HUB	2:00	26.37
1/15/2014	DA LMP - Price	INDIANA.HUB	3:00	26.04
1/15/2014	DA LMP - Price	INDIANA.HUB	4:00	25.9
1/15/2014	DA LMP - Price	INDIANA.HUB	5:00	27.13
1/15/2014	DA LMP - Price	INDIANA.HUB	6:00	30.16
1/15/2014	DA LMP - Price	INDIANA.HUB	7:00	40.55
1/15/2014	DA LMP - Price	INDIANA.HUB	8:00	50.12
1/15/2014	DA LMP - Price	INDIANA.HUB	9:00	46.04
1/15/2014	DA LMP - Price	INDIANA.HUB	10:00	44.84
1/15/2014	DA LMP - Price	INDIANA.HUB	11:00	43.2
1/15/2014	DA LMP - Price	INDIANA.HUB	12:00	41.3
1/15/2014	DA LMP - Price	INDIANA.HUB	13:00	40.07
1/15/2014	DA LMP - Price	INDIANA.HUB	14:00	37.45
1/15/2014	DA LMP - Price	INDIANA.HUB	15:00	34.64
1/15/2014	DA LMP - Price	INDIANA.HUB	16:00	32.55
1/15/2014	DA LMP - Price	INDIANA.HUB	17:00	34.37
1/15/2014	DA LMP - Price	INDIANA.HUB	18:00	40.87
1/15/2014	DA LMP - Price	INDIANA.HUB	19:00	46.26
1/15/2014	DA LMP - Price	INDIANA.HUB	20:00	43.78
1/15/2014	DA LMP - Price	INDIANA.HUB	21:00	41.56
1/15/2014	DA LMP - Price	INDIANA.HUB	22:00	36.91
1/15/2014	DA LMP - Price	INDIANA.HUB	23:00	32.15
1/15/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.52
1/16/2014	DA LMP - Price	INDIANA.HUB	1:00	31.84
1/16/2014	DA LMP - Price	INDIANA.HUB	2:00	30.08
1/16/2014	DA LMP - Price	INDIANA.HUB	3:00	29.1
1/16/2014	DA LMP - Price	INDIANA.HUB	4:00	29.14
1/16/2014	DA LMP - Price	INDIANA.HUB	5:00	31.42
1/16/2014	DA LMP - Price	INDIANA.HUB	6:00	40.04
1/16/2014	DA LMP - Price	INDIANA.HUB	7:00	49.5
1/16/2014	DA LMP - Price	INDIANA.HUB	8:00	61.25

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Trade Date	Price Type	Transaction Point	Per End	Price
1/16/2014	DA LMP - Price	INDIANA.HUB	9:00	46.54
1/16/2014	DA LMP - Price	INDIANA.HUB	10:00	45.19
1/16/2014	DA LMP - Price	INDIANA.HUB	11:00	44.61
1/16/2014	DA LMP - Price	INDIANA.HUB	12:00	42.6
1/16/2014	DA LMP - Price	INDIANA.HUB	13:00	38.77
1/16/2014	DA LMP - Price	INDIANA.HUB	14:00	35
1/16/2014	DA LMP - Price	INDIANA.HUB	15:00	31.95
1/16/2014	DA LMP - Price	INDIANA.HUB	16:00	30.69
1/16/2014	DA LMP - Price	INDIANA.HUB	17:00	35.15
1/16/2014	DA LMP - Price	INDIANA.HUB	18:00	44.18
1/16/2014	DA LMP - Price	INDIANA.HUB	19:00	45.39
1/16/2014	DA LMP - Price	INDIANA.HUB	20:00	44.09
1/16/2014	DA LMP - Price	INDIANA.HUB	21:00	41.6
1/16/2014	DA LMP - Price	INDIANA.HUB	22:00	37.86
1/16/2014	DA LMP - Price	INDIANA.HUB	23:00	31.33
1/16/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.4
1/17/2014	DA LMP - Price	INDIANA.HUB	1:00	30.37
1/17/2014	DA LMP - Price	INDIANA.HUB	2:00	28.48
1/17/2014	DA LMP - Price	INDIANA.HUB	3:00	28.17
1/17/2014	DA LMP - Price	INDIANA.HUB	4:00	27.94
1/17/2014	DA LMP - Price	INDIANA.HUB	5:00	29.1
1/17/2014	DA LMP - Price	INDIANA.HUB	6:00	33.29
1/17/2014	DA LMP - Price	INDIANA.HUB	7:00	46.67
1/17/2014	DA LMP - Price	INDIANA.HUB	8:00	55.47
1/17/2014	DA LMP - Price	INDIANA.HUB	9:00	47
1/17/2014	DA LMP - Price	INDIANA.HUB	10:00	45.4
1/17/2014	DA LMP - Price	INDIANA.HUB	11:00	44.29
1/17/2014	DA LMP - Price	INDIANA.HUB	12:00	42.53
1/17/2014	DA LMP - Price	INDIANA.HUB	13:00	39.79
1/17/2014	DA LMP - Price	INDIANA.HUB	14:00	37.61
1/17/2014	DA LMP - Price	INDIANA.HUB	15:00	35.01
1/17/2014	DA LMP - Price	INDIANA.HUB	16:00	33.21
1/17/2014	DA LMP - Price	INDIANA.HUB	17:00	32.85
1/17/2014	DA LMP - Price	INDIANA.HUB	18:00	41.46
1/17/2014	DA LMP - Price	INDIANA.HUB	19:00	53.07
1/17/2014	DA LMP - Price	INDIANA.HUB	20:00	48.57
1/17/2014	DA LMP - Price	INDIANA.HUB	21:00	43.92
1/17/2014	DA LMP - Price	INDIANA.HUB	22:00	41.89
1/17/2014	DA LMP - Price	INDIANA.HUB	23:00	36.02
1/17/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.98
1/18/2014	DA LMP - Price	INDIANA.HUB	1:00	38.71
1/18/2014	DA LMP - Price	INDIANA.HUB	2:00	35.25
1/18/2014	DA LMP - Price	INDIANA.HUB	3:00	35.87
1/18/2014	DA LMP - Price	INDIANA.HUB	4:00	32.82
1/18/2014	DA LMP - Price	INDIANA.HUB	5:00	36.11
1/18/2014	DA LMP - Price	INDIANA.HUB	6:00	36.12

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Trade Date	Price Type	Transaction Point	Per End	Price
1/18/2014	DA LMP - Price	INDIANA.HUB	7:00	46.59
1/18/2014	DA LMP - Price	INDIANA.HUB	8:00	48.29
1/18/2014	DA LMP - Price	INDIANA.HUB	9:00	48.22
1/18/2014	DA LMP - Price	INDIANA.HUB	10:00	50.24
1/18/2014	DA LMP - Price	INDIANA.HUB	11:00	47.99
1/18/2014	DA LMP - Price	INDIANA.HUB	12:00	45.5
1/18/2014	DA LMP - Price	INDIANA.HUB	13:00	36.86
1/18/2014	DA LMP - Price	INDIANA.HUB	14:00	36.78
1/18/2014	DA LMP - Price	INDIANA.HUB	15:00	32.18
1/18/2014	DA LMP - Price	INDIANA.HUB	16:00	31.56
1/18/2014	DA LMP - Price	INDIANA.HUB	17:00	33.23
1/18/2014	DA LMP - Price	INDIANA.HUB	18:00	40.63
1/18/2014	DA LMP - Price	INDIANA.HUB	19:00	47.79
1/18/2014	DA LMP - Price	INDIANA.HUB	20:00	46.14
1/18/2014	DA LMP - Price	INDIANA.HUB	21:00	41.7
1/18/2014	DA LMP - Price	INDIANA.HUB	22:00	35.48
1/18/2014	DA LMP - Price	INDIANA.HUB	23:00	32.49
1/18/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.68
1/19/2014	DA LMP - Price	INDIANA.HUB	1:00	30.02
1/19/2014	DA LMP - Price	INDIANA.HUB	2:00	29.75
1/19/2014	DA LMP - Price	INDIANA.HUB	3:00	29.31
1/19/2014	DA LMP - Price	INDIANA.HUB	4:00	27.86
1/19/2014	DA LMP - Price	INDIANA.HUB	5:00	27.91
1/19/2014	DA LMP - Price	INDIANA.HUB	6:00	26.33
1/19/2014	DA LMP - Price	INDIANA.HUB	7:00	28.03
1/19/2014	DA LMP - Price	INDIANA.HUB	8:00	32.09
1/19/2014	DA LMP - Price	INDIANA.HUB	9:00	33.22
1/19/2014	DA LMP - Price	INDIANA.HUB	10:00	34.81
1/19/2014	DA LMP - Price	INDIANA.HUB	11:00	32.65
1/19/2014	DA LMP - Price	INDIANA.HUB	12:00	31.5
1/19/2014	DA LMP - Price	INDIANA.HUB	13:00	30.31
1/19/2014	DA LMP - Price	INDIANA.HUB	14:00	28.68
1/19/2014	DA LMP - Price	INDIANA.HUB	15:00	27.49
1/19/2014	DA LMP - Price	INDIANA.HUB	16:00	27.33
1/19/2014	DA LMP - Price	INDIANA.HUB	17:00	28.02
1/19/2014	DA LMP - Price	INDIANA.HUB	18:00	38.1
1/19/2014	DA LMP - Price	INDIANA.HUB	19:00	47.35
1/19/2014	DA LMP - Price	INDIANA.HUB	20:00	43.98
1/19/2014	DA LMP - Price	INDIANA.HUB	21:00	41.74
1/19/2014	DA LMP - Price	INDIANA.HUB	22:00	35.82
1/19/2014	DA LMP - Price	INDIANA.HUB	23:00	32.2
1/19/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.57
1/20/2014	DA LMP - Price	INDIANA.HUB	1:00	32.55
1/20/2014	DA LMP - Price	INDIANA.HUB	2:00	30.62
1/20/2014	DA LMP - Price	INDIANA.HUB	3:00	29.61
1/20/2014	DA LMP - Price	INDIANA.HUB	4:00	29.52

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Trade Date	Price Type	Transaction Point	Per End	Price
1/20/2014	DA LMP - Price	INDIANA.HUB	5:00	30.58
1/20/2014	DA LMP - Price	INDIANA.HUB	6:00	30.73
1/20/2014	DA LMP - Price	INDIANA.HUB	7:00	36.2
1/20/2014	DA LMP - Price	INDIANA.HUB	8:00	42.9
1/20/2014	DA LMP - Price	INDIANA.HUB	9:00	41.69
1/20/2014	DA LMP - Price	INDIANA.HUB	10:00	42.87
1/20/2014	DA LMP - Price	INDIANA.HUB	11:00	39.04
1/20/2014	DA LMP - Price	INDIANA.HUB	12:00	36.58
1/20/2014	DA LMP - Price	INDIANA.HUB	13:00	36.8
1/20/2014	DA LMP - Price	INDIANA.HUB	14:00	33.17
1/20/2014	DA LMP - Price	INDIANA.HUB	15:00	30.99
1/20/2014	DA LMP - Price	INDIANA.HUB	16:00	29.89
1/20/2014	DA LMP - Price	INDIANA.HUB	17:00	30.49
1/20/2014	DA LMP - Price	INDIANA.HUB	18:00	43.68
1/20/2014	DA LMP - Price	INDIANA.HUB	19:00	53.63
1/20/2014	DA LMP - Price	INDIANA.HUB	20:00	50.23
1/20/2014	DA LMP - Price	INDIANA.HUB	21:00	47.23
1/20/2014	DA LMP - Price	INDIANA.HUB	22:00	37.56
1/20/2014	DA LMP - Price	INDIANA.HUB	23:00	30.78
1/20/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.08
1/21/2014	DA LMP - Price	INDIANA.HUB	1:00	35.26
1/21/2014	DA LMP - Price	INDIANA.HUB	2:00	32.03
1/21/2014	DA LMP - Price	INDIANA.HUB	3:00	31.96
1/21/2014	DA LMP - Price	INDIANA.HUB	4:00	30.82
1/21/2014	DA LMP - Price	INDIANA.HUB	5:00	32.61
1/21/2014	DA LMP - Price	INDIANA.HUB	6:00	41.15
1/21/2014	DA LMP - Price	INDIANA.HUB	7:00	52.35
1/21/2014	DA LMP - Price	INDIANA.HUB	8:00	73.69
1/21/2014	DA LMP - Price	INDIANA.HUB	9:00	70.02
1/21/2014	DA LMP - Price	INDIANA.HUB	10:00	67
1/21/2014	DA LMP - Price	INDIANA.HUB	11:00	65.94
1/21/2014	DA LMP - Price	INDIANA.HUB	12:00	61.66
1/21/2014	DA LMP - Price	INDIANA.HUB	13:00	55.25
1/21/2014	DA LMP - Price	INDIANA.HUB	14:00	52.4
1/21/2014	DA LMP - Price	INDIANA.HUB	15:00	48.03
1/21/2014	DA LMP - Price	INDIANA.HUB	16:00	46.09
1/21/2014	DA LMP - Price	INDIANA.HUB	17:00	49.54
1/21/2014	DA LMP - Price	INDIANA.HUB	18:00	69.32
1/21/2014	DA LMP - Price	INDIANA.HUB	19:00	90.19
1/21/2014	DA LMP - Price	INDIANA.HUB	20:00	82.89
1/21/2014	DA LMP - Price	INDIANA.HUB	21:00	74.89
1/21/2014	DA LMP - Price	INDIANA.HUB	22:00	65.87
1/21/2014	DA LMP - Price	INDIANA.HUB	23:00	59.17
1/21/2014	DA LMP - Price	INDIANA.HUB	24:00:00	49.84
1/22/2014	DA LMP - Price	INDIANA.HUB	1:00	60.75
1/22/2014	DA LMP - Price	INDIANA.HUB	2:00	60.81

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Trade Date	Price Type	Transaction Point	Per End	Price
1/22/2014	DA LMP - Price	INDIANA.HUB	3:00	60.54
1/22/2014	DA LMP - Price	INDIANA.HUB	4:00	60.51
1/22/2014	DA LMP - Price	INDIANA.HUB	5:00	61.06
1/22/2014	DA LMP - Price	INDIANA.HUB	6:00	66.41
1/22/2014	DA LMP - Price	INDIANA.HUB	7:00	108.84
1/22/2014	DA LMP - Price	INDIANA.HUB	8:00	147.12
1/22/2014	DA LMP - Price	INDIANA.HUB	9:00	132.71
1/22/2014	DA LMP - Price	INDIANA.HUB	10:00	119.03
1/22/2014	DA LMP - Price	INDIANA.HUB	11:00	105.37
1/22/2014	DA LMP - Price	INDIANA.HUB	12:00	108.97
1/22/2014	DA LMP - Price	INDIANA.HUB	13:00	101.25
1/22/2014	DA LMP - Price	INDIANA.HUB	14:00	96.88
1/22/2014	DA LMP - Price	INDIANA.HUB	15:00	84.86
1/22/2014	DA LMP - Price	INDIANA.HUB	16:00	81.17
1/22/2014	DA LMP - Price	INDIANA.HUB	17:00	83.96
1/22/2014	DA LMP - Price	INDIANA.HUB	18:00	105
1/22/2014	DA LMP - Price	INDIANA.HUB	19:00	141.3
1/22/2014	DA LMP - Price	INDIANA.HUB	20:00	132.21
1/22/2014	DA LMP - Price	INDIANA.HUB	21:00	125
1/22/2014	DA LMP - Price	INDIANA.HUB	22:00	107.27
1/22/2014	DA LMP - Price	INDIANA.HUB	23:00	68.82
1/22/2014	DA LMP - Price	INDIANA.HUB	24:00:00	55.01
1/23/2014	DA LMP - Price	INDIANA.HUB	1:00	72.78
1/23/2014	DA LMP - Price	INDIANA.HUB	2:00	70.63
1/23/2014	DA LMP - Price	INDIANA.HUB	3:00	72.36
1/23/2014	DA LMP - Price	INDIANA.HUB	4:00	70.46
1/23/2014	DA LMP - Price	INDIANA.HUB	5:00	74.37
1/23/2014	DA LMP - Price	INDIANA.HUB	6:00	81.98
1/23/2014	DA LMP - Price	INDIANA.HUB	7:00	104.3
1/23/2014	DA LMP - Price	INDIANA.HUB	8:00	132.46
1/23/2014	DA LMP - Price	INDIANA.HUB	9:00	120.65
1/23/2014	DA LMP - Price	INDIANA.HUB	10:00	116.02
1/23/2014	DA LMP - Price	INDIANA.HUB	11:00	109.3
1/23/2014	DA LMP - Price	INDIANA.HUB	12:00	104.25
1/23/2014	DA LMP - Price	INDIANA.HUB	13:00	97.04
1/23/2014	DA LMP - Price	INDIANA.HUB	14:00	89.71
1/23/2014	DA LMP - Price	INDIANA.HUB	15:00	86.32
1/23/2014	DA LMP - Price	INDIANA.HUB	16:00	81.65
1/23/2014	DA LMP - Price	INDIANA.HUB	17:00	84.84
1/23/2014	DA LMP - Price	INDIANA.HUB	18:00	106.95
1/23/2014	DA LMP - Price	INDIANA.HUB	19:00	180.66
1/23/2014	DA LMP - Price	INDIANA.HUB	20:00	158.33
1/23/2014	DA LMP - Price	INDIANA.HUB	21:00	122.92
1/23/2014	DA LMP - Price	INDIANA.HUB	22:00	108.5
1/23/2014	DA LMP - Price	INDIANA.HUB	23:00	93.47
1/23/2014	DA LMP - Price	INDIANA.HUB	24:00:00	75.01

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Trade Date	Price Type	Transaction Poin	Per End	Price
1/24/2014	DA LMP - Price	INDIANA.HUB	1:00	76.35
1/24/2014	DA LMP - Price	INDIANA.HUB	2:00	75.62
1/24/2014	DA LMP - Price	INDIANA.HUB	3:00	75.97
1/24/2014	DA LMP - Price	INDIANA.HUB	4:00	70.33
1/24/2014	DA LMP - Price	INDIANA.HUB	5:00	71.49
1/24/2014	DA LMP - Price	INDIANA.HUB	6:00	92.25
1/24/2014	DA LMP - Price	INDIANA.HUB	7:00	109.12
1/24/2014	DA LMP - Price	INDIANA.HUB	8:00	136.42
1/24/2014	DA LMP - Price	INDIANA.HUB	9:00	115.61
1/24/2014	DA LMP - Price	INDIANA.HUB	10:00	106.2
1/24/2014	DA LMP - Price	INDIANA.HUB	11:00	99.63
1/24/2014	DA LMP - Price	INDIANA.HUB	12:00	94.92
1/24/2014	DA LMP - Price	INDIANA.HUB	13:00	88.84
1/24/2014	DA LMP - Price	INDIANA.HUB	14:00	76.66
1/24/2014	DA LMP - Price	INDIANA.HUB	15:00	71.5
1/24/2014	DA LMP - Price	INDIANA.HUB	16:00	67.98
1/24/2014	DA LMP - Price	INDIANA.HUB	17:00	70.78
1/24/2014	DA LMP - Price	INDIANA.HUB	18:00	91.14
1/24/2014	DA LMP - Price	INDIANA.HUB	19:00	110.52
1/24/2014	DA LMP - Price	INDIANA.HUB	20:00	101.71
1/24/2014	DA LMP - Price	INDIANA.HUB	21:00	90.43
1/24/2014	DA LMP - Price	INDIANA.HUB	22:00	78.38
1/24/2014	DA LMP - Price	INDIANA.HUB	23:00	65.25
1/24/2014	DA LMP - Price	INDIANA.HUB	24:00:00	49.78
1/25/2014	DA LMP - Price	INDIANA.HUB	1:00	52.35
1/25/2014	DA LMP - Price	INDIANA.HUB	2:00	45.52
1/25/2014	DA LMP - Price	INDIANA.HUB	3:00	44.69
1/25/2014	DA LMP - Price	INDIANA.HUB	4:00	37.95
1/25/2014	DA LMP - Price	INDIANA.HUB	5:00	33.44
1/25/2014	DA LMP - Price	INDIANA.HUB	6:00	35.79
1/25/2014	DA LMP - Price	INDIANA.HUB	7:00	41.32
1/25/2014	DA LMP - Price	INDIANA.HUB	8:00	61.05
1/25/2014	DA LMP - Price	INDIANA.HUB	9:00	66.09
1/25/2014	DA LMP - Price	INDIANA.HUB	10:00	77.28
1/25/2014	DA LMP - Price	INDIANA.HUB	11:00	74.43
1/25/2014	DA LMP - Price	INDIANA.HUB	12:00	73.77
1/25/2014	DA LMP - Price	INDIANA.HUB	13:00	65.24
1/25/2014	DA LMP - Price	INDIANA.HUB	14:00	56.34
1/25/2014	DA LMP - Price	INDIANA.HUB	15:00	53.29
1/25/2014	DA LMP - Price	INDIANA.HUB	16:00	46.98
1/25/2014	DA LMP - Price	INDIANA.HUB	17:00	51.58
1/25/2014	DA LMP - Price	INDIANA.HUB	18:00	77.02
1/25/2014	DA LMP - Price	INDIANA.HUB	19:00	107.08
1/25/2014	DA LMP - Price	INDIANA.HUB	20:00	90.03
1/25/2014	DA LMP - Price	INDIANA.HUB	21:00	84.38
1/25/2014	DA LMP - Price	INDIANA.HUB	22:00	75.22

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Trade Date	Price Type	Transaction Point	Per End	Price
1/25/2014	DA LMP - Price	INDIANA.HUB	23:00	65.61
1/25/2014	DA LMP - Price	INDIANA.HUB	24:00:00	53.35
1/26/2014	DA LMP - Price	INDIANA.HUB	1:00	123.33
1/26/2014	DA LMP - Price	INDIANA.HUB	2:00	115.81
1/26/2014	DA LMP - Price	INDIANA.HUB	3:00	94.54
1/26/2014	DA LMP - Price	INDIANA.HUB	4:00	83.42
1/26/2014	DA LMP - Price	INDIANA.HUB	5:00	75
1/26/2014	DA LMP - Price	INDIANA.HUB	6:00	85.83
1/26/2014	DA LMP - Price	INDIANA.HUB	7:00	86.02
1/26/2014	DA LMP - Price	INDIANA.HUB	8:00	82.66
1/26/2014	DA LMP - Price	INDIANA.HUB	9:00	87.4
1/26/2014	DA LMP - Price	INDIANA.HUB	10:00	87.09
1/26/2014	DA LMP - Price	INDIANA.HUB	11:00	79.66
1/26/2014	DA LMP - Price	INDIANA.HUB	12:00	84.51
1/26/2014	DA LMP - Price	INDIANA.HUB	13:00	73.41
1/26/2014	DA LMP - Price	INDIANA.HUB	14:00	57.51
1/26/2014	DA LMP - Price	INDIANA.HUB	15:00	52.67
1/26/2014	DA LMP - Price	INDIANA.HUB	16:00	47.29
1/26/2014	DA LMP - Price	INDIANA.HUB	17:00	50.97
1/26/2014	DA LMP - Price	INDIANA.HUB	18:00	75.94
1/26/2014	DA LMP - Price	INDIANA.HUB	19:00	102.46
1/26/2014	DA LMP - Price	INDIANA.HUB	20:00	85.68
1/26/2014	DA LMP - Price	INDIANA.HUB	21:00	78.02
1/26/2014	DA LMP - Price	INDIANA.HUB	22:00	63.38
1/26/2014	DA LMP - Price	INDIANA.HUB	23:00	50
1/26/2014	DA LMP - Price	INDIANA.HUB	24:00:00	46.27
1/27/2014	DA LMP - Price	INDIANA.HUB	1:00	49.84
1/27/2014	DA LMP - Price	INDIANA.HUB	2:00	47.01
1/27/2014	DA LMP - Price	INDIANA.HUB	3:00	50.81
1/27/2014	DA LMP - Price	INDIANA.HUB	4:00	48.74
1/27/2014	DA LMP - Price	INDIANA.HUB	5:00	52.88
1/27/2014	DA LMP - Price	INDIANA.HUB	6:00	71.06
1/27/2014	DA LMP - Price	INDIANA.HUB	7:00	90.86
1/27/2014	DA LMP - Price	INDIANA.HUB	8:00	144.79
1/27/2014	DA LMP - Price	INDIANA.HUB	9:00	145.79
1/27/2014	DA LMP - Price	INDIANA.HUB	10:00	147.01
1/27/2014	DA LMP - Price	INDIANA.HUB	11:00	153.92
1/27/2014	DA LMP - Price	INDIANA.HUB	12:00	150
1/27/2014	DA LMP - Price	INDIANA.HUB	13:00	151.47
1/27/2014	DA LMP - Price	INDIANA.HUB	14:00	143.28
1/27/2014	DA LMP - Price	INDIANA.HUB	15:00	140
1/27/2014	DA LMP - Price	INDIANA.HUB	16:00	125
1/27/2014	DA LMP - Price	INDIANA.HUB	17:00	150
1/27/2014	DA LMP - Price	INDIANA.HUB	18:00	180
1/27/2014	DA LMP - Price	INDIANA.HUB	19:00	274.55
1/27/2014	DA LMP - Price	INDIANA.HUB	20:00	300.33

Trade Date	Price Type	Transaction Point	Per End	Price
1/27/2014	DA LMP - Price	INDIANA.HUB	21:00	244.92
1/27/2014	DA LMP - Price	INDIANA.HUB	22:00	208.36
1/27/2014	DA LMP - Price	INDIANA.HUB	23:00	157.3
1/27/2014	DA LMP - Price	INDIANA.HUB	24:00:00	110.99
1/28/2014	DA LMP - Price	INDIANA.HUB	1:00	299.81
1/28/2014	DA LMP - Price	INDIANA.HUB	2:00	289.92
1/28/2014	DA LMP - Price	INDIANA.HUB	3:00	214.98
1/28/2014	DA LMP - Price	INDIANA.HUB	4:00	206.2
1/28/2014	DA LMP - Price	INDIANA.HUB	5:00	225
1/28/2014	DA LMP - Price	INDIANA.HUB	6:00	308.62
1/28/2014	DA LMP - Price	INDIANA.HUB	7:00	316.03
1/28/2014	DA LMP - Price	INDIANA.HUB	8:00	440.74
1/28/2014	DA LMP - Price	INDIANA.HUB	9:00	395.47
1/28/2014	DA LMP - Price	INDIANA.HUB	10:00	422.26
1/28/2014	DA LMP - Price	INDIANA.HUB	11:00	450
1/28/2014	DA LMP - Price	INDIANA.HUB	12:00	456.17
1/28/2014	DA LMP - Price	INDIANA.HUB	13:00	448.78
1/28/2014	DA LMP - Price	INDIANA.HUB	14:00	377
1/28/2014	DA LMP - Price	INDIANA.HUB	15:00	379.82
1/28/2014	DA LMP - Price	INDIANA.HUB	16:00	295.4
1/28/2014	DA LMP - Price	INDIANA.HUB	17:00	346
1/28/2014	DA LMP - Price	INDIANA.HUB	18:00	385.65
1/28/2014	DA LMP - Price	INDIANA.HUB	19:00	449.91
1/28/2014	DA LMP - Price	INDIANA.HUB	20:00	449.2
1/28/2014	DA LMP - Price	INDIANA.HUB	21:00	370.59
1/28/2014	DA LMP - Price	INDIANA.HUB	22:00	394.98
1/28/2014	DA LMP - Price	INDIANA.HUB	23:00	344.21
1/28/2014	DA LMP - Price	INDIANA.HUB	24:00:00	252.72
1/29/2014	DA LMP - Price	INDIANA.HUB	1:00	102.35
1/29/2014	DA LMP - Price	INDIANA.HUB	2:00	97.31
1/29/2014	DA LMP - Price	INDIANA.HUB	3:00	78.89
1/29/2014	DA LMP - Price	INDIANA.HUB	4:00	79.05
1/29/2014	DA LMP - Price	INDIANA.HUB	5:00	76.32
1/29/2014	DA LMP - Price	INDIANA.HUB	6:00	103.44
1/29/2014	DA LMP - Price	INDIANA.HUB	7:00	134.08
1/29/2014	DA LMP - Price	INDIANA.HUB	8:00	221.58
1/29/2014	DA LMP - Price	INDIANA.HUB	9:00	176.14
1/29/2014	DA LMP - Price	INDIANA.HUB	10:00	129.29
1/29/2014	DA LMP - Price	INDIANA.HUB	11:00	116.55
1/29/2014	DA LMP - Price	INDIANA.HUB	12:00	116.58
1/29/2014	DA LMP - Price	INDIANA.HUB	13:00	98.64
1/29/2014	DA LMP - Price	INDIANA.HUB	14:00	81.31
1/29/2014	DA LMP - Price	INDIANA.HUB	15:00	75.27
1/29/2014	DA LMP - Price	INDIANA.HUB	16:00	65.04
1/29/2014	DA LMP - Price	INDIANA.HUB	17:00	69.78
1/29/2014	DA LMP - Price	INDIANA.HUB	18:00	96.02

Trade Date	Price Type	Transaction Point	Per End	Price
1/29/2014	DA LMP - Price	INDIANA.HUB	19:00	126.57
1/29/2014	DA LMP - Price	INDIANA.HUB	20:00	108.2
1/29/2014	DA LMP - Price	INDIANA.HUB	21:00	101.17
1/29/2014	DA LMP - Price	INDIANA.HUB	22:00	89.53
1/29/2014	DA LMP - Price	INDIANA.HUB	23:00	77.15
1/29/2014	DA LMP - Price	INDIANA.HUB	24:00:00	69.58
1/30/2014	DA LMP - Price	INDIANA.HUB	1:00	41.03
1/30/2014	DA LMP - Price	INDIANA.HUB	2:00	36.06
1/30/2014	DA LMP - Price	INDIANA.HUB	3:00	35.23
1/30/2014	DA LMP - Price	INDIANA.HUB	4:00	35.42
1/30/2014	DA LMP - Price	INDIANA.HUB	5:00	39.35
1/30/2014	DA LMP - Price	INDIANA.HUB	6:00	43.88
1/30/2014	DA LMP - Price	INDIANA.HUB	7:00	65.07
1/30/2014	DA LMP - Price	INDIANA.HUB	8:00	75.34
1/30/2014	DA LMP - Price	INDIANA.HUB	9:00	72.95
1/30/2014	DA LMP - Price	INDIANA.HUB	10:00	64.88
1/30/2014	DA LMP - Price	INDIANA.HUB	11:00	58.06
1/30/2014	DA LMP - Price	INDIANA.HUB	12:00	49.73
1/30/2014	DA LMP - Price	INDIANA.HUB	13:00	49.91
1/30/2014	DA LMP - Price	INDIANA.HUB	14:00	42.79
1/30/2014	DA LMP - Price	INDIANA.HUB	15:00	39.33
1/30/2014	DA LMP - Price	INDIANA.HUB	16:00	35.15
1/30/2014	DA LMP - Price	INDIANA.HUB	17:00	37.05
1/30/2014	DA LMP - Price	INDIANA.HUB	18:00	45.58
1/30/2014	DA LMP - Price	INDIANA.HUB	19:00	65.41
1/30/2014	DA LMP - Price	INDIANA.HUB	20:00	58.9
1/30/2014	DA LMP - Price	INDIANA.HUB	21:00	60.71
1/30/2014	DA LMP - Price	INDIANA.HUB	22:00	48.86
1/30/2014	DA LMP - Price	INDIANA.HUB	23:00	43.1
1/30/2014	DA LMP - Price	INDIANA.HUB	24:00:00	32.45
1/31/2014	DA LMP - Price	INDIANA.HUB	1:00	33.98
1/31/2014	DA LMP - Price	INDIANA.HUB	2:00	32.39
1/31/2014	DA LMP - Price	INDIANA.HUB	3:00	32.35
1/31/2014	DA LMP - Price	INDIANA.HUB	4:00	32.02
1/31/2014	DA LMP - Price	INDIANA.HUB	5:00	33.84
1/31/2014	DA LMP - Price	INDIANA.HUB	6:00	36.06
1/31/2014	DA LMP - Price	INDIANA.HUB	7:00	50.73
1/31/2014	DA LMP - Price	INDIANA.HUB	8:00	67.81
1/31/2014	DA LMP - Price	INDIANA.HUB	9:00	68.55
1/31/2014	DA LMP - Price	INDIANA.HUB	10:00	64.21
1/31/2014	DA LMP - Price	INDIANA.HUB	11:00	63.07
1/31/2014	DA LMP - Price	INDIANA.HUB	12:00	59.57
1/31/2014	DA LMP - Price	INDIANA.HUB	13:00	56.39
1/31/2014	DA LMP - Price	INDIANA.HUB	14:00	52.15
1/31/2014	DA LMP - Price	INDIANA.HUB	15:00	48.01
1/31/2014	DA LMP - Price	INDIANA.HUB	16:00	41.31

Trade Date	Price Type	Transaction Point	Per End	Price
1/31/2014	DA LMP - Price	INDIANA.HUB	17:00	40.3
1/31/2014	DA LMP - Price	INDIANA.HUB	18:00	54.37
1/31/2014	DA LMP - Price	INDIANA.HUB	19:00	67.63
1/31/2014	DA LMP - Price	INDIANA.HUB	20:00	62.98
1/31/2014	DA LMP - Price	INDIANA.HUB	21:00	62.61
1/31/2014	DA LMP - Price	INDIANA.HUB	22:00	55
1/31/2014	DA LMP - Price	INDIANA.HUB	23:00	49
1/31/2014	DA LMP - Price	INDIANA.HUB	24:00:00	39.62
2/1/2014	DA LMP - Price	INDIANA.HUB	1:00	39.64
2/1/2014	DA LMP - Price	INDIANA.HUB	2:00	32.88
2/1/2014	DA LMP - Price	INDIANA.HUB	3:00	30.64
2/1/2014	DA LMP - Price	INDIANA.HUB	4:00	29.24
2/1/2014	DA LMP - Price	INDIANA.HUB	5:00	28.9
2/1/2014	DA LMP - Price	INDIANA.HUB	6:00	29.57
2/1/2014	DA LMP - Price	INDIANA.HUB	7:00	34.76
2/1/2014	DA LMP - Price	INDIANA.HUB	8:00	41.41
2/1/2014	DA LMP - Price	INDIANA.HUB	9:00	47.27
2/1/2014	DA LMP - Price	INDIANA.HUB	10:00	49.07
2/1/2014	DA LMP - Price	INDIANA.HUB	11:00	45.25
2/1/2014	DA LMP - Price	INDIANA.HUB	12:00	41.14
2/1/2014	DA LMP - Price	INDIANA.HUB	13:00	36.93
2/1/2014	DA LMP - Price	INDIANA.HUB	14:00	33.23
2/1/2014	DA LMP - Price	INDIANA.HUB	15:00	30.92
2/1/2014	DA LMP - Price	INDIANA.HUB	16:00	30.2
2/1/2014	DA LMP - Price	INDIANA.HUB	17:00	30.72
2/1/2014	DA LMP - Price	INDIANA.HUB	18:00	38.31
2/1/2014	DA LMP - Price	INDIANA.HUB	19:00	52.58
2/1/2014	DA LMP - Price	INDIANA.HUB	20:00	49.62
2/1/2014	DA LMP - Price	INDIANA.HUB	21:00	45.44
2/1/2014	DA LMP - Price	INDIANA.HUB	22:00	40.46
2/1/2014	DA LMP - Price	INDIANA.HUB	23:00	36.94
2/1/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.86
2/2/2014	DA LMP - Price	INDIANA.HUB	1:00	28.79
2/2/2014	DA LMP - Price	INDIANA.HUB	2:00	29.22
2/2/2014	DA LMP - Price	INDIANA.HUB	3:00	28.29
2/2/2014	DA LMP - Price	INDIANA.HUB	4:00	27.48
2/2/2014	DA LMP - Price	INDIANA.HUB	5:00	27.6
2/2/2014	DA LMP - Price	INDIANA.HUB	6:00	27.43
2/2/2014	DA LMP - Price	INDIANA.HUB	7:00	29.18
2/2/2014	DA LMP - Price	INDIANA.HUB	8:00	30.75
2/2/2014	DA LMP - Price	INDIANA.HUB	9:00	33.46
2/2/2014	DA LMP - Price	INDIANA.HUB	10:00	39.68
2/2/2014	DA LMP - Price	INDIANA.HUB	11:00	40.43
2/2/2014	DA LMP - Price	INDIANA.HUB	12:00	36.55
2/2/2014	DA LMP - Price	INDIANA.HUB	13:00	33.19
2/2/2014	DA LMP - Price	INDIANA.HUB	14:00	32.7

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Trade Date	Price Type	Transaction Point	Per End	Price
2/2/2014	DA LMP - Price	INDIANA.HUB	15:00	32.17
2/2/2014	DA LMP - Price	INDIANA.HUB	16:00	30.87
2/2/2014	DA LMP - Price	INDIANA.HUB	17:00	31.52
2/2/2014	DA LMP - Price	INDIANA.HUB	18:00	36.07
2/2/2014	DA LMP - Price	INDIANA.HUB	19:00	52
2/2/2014	DA LMP - Price	INDIANA.HUB	20:00	48.87
2/2/2014	DA LMP - Price	INDIANA.HUB	21:00	47.48
2/2/2014	DA LMP - Price	INDIANA.HUB	22:00	42.62
2/2/2014	DA LMP - Price	INDIANA.HUB	23:00	36.6
2/2/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.21
2/3/2014	DA LMP - Price	INDIANA.HUB	1:00	38.44
2/3/2014	DA LMP - Price	INDIANA.HUB	2:00	36.69
2/3/2014	DA LMP - Price	INDIANA.HUB	3:00	34.79
2/3/2014	DA LMP - Price	INDIANA.HUB	4:00	33.54
2/3/2014	DA LMP - Price	INDIANA.HUB	5:00	34.49
2/3/2014	DA LMP - Price	INDIANA.HUB	6:00	40.66
2/3/2014	DA LMP - Price	INDIANA.HUB	7:00	59.27
2/3/2014	DA LMP - Price	INDIANA.HUB	8:00	71.5
2/3/2014	DA LMP - Price	INDIANA.HUB	9:00	74.42
2/3/2014	DA LMP - Price	INDIANA.HUB	10:00	72.76
2/3/2014	DA LMP - Price	INDIANA.HUB	11:00	69
2/3/2014	DA LMP - Price	INDIANA.HUB	12:00	61.87
2/3/2014	DA LMP - Price	INDIANA.HUB	13:00	55.31
2/3/2014	DA LMP - Price	INDIANA.HUB	14:00	48.07
2/3/2014	DA LMP - Price	INDIANA.HUB	15:00	45.63
2/3/2014	DA LMP - Price	INDIANA.HUB	16:00	41.67
2/3/2014	DA LMP - Price	INDIANA.HUB	17:00	37.81
2/3/2014	DA LMP - Price	INDIANA.HUB	18:00	55.79
2/3/2014	DA LMP - Price	INDIANA.HUB	19:00	84.85
2/3/2014	DA LMP - Price	INDIANA.HUB	20:00	79.06
2/3/2014	DA LMP - Price	INDIANA.HUB	21:00	70.56
2/3/2014	DA LMP - Price	INDIANA.HUB	22:00	61.6
2/3/2014	DA LMP - Price	INDIANA.HUB	23:00	52.19
2/3/2014	DA LMP - Price	INDIANA.HUB	24:00:00	46.93
2/4/2014	DA LMP - Price	INDIANA.HUB	1:00	40.84
2/4/2014	DA LMP - Price	INDIANA.HUB	2:00	36.87
2/4/2014	DA LMP - Price	INDIANA.HUB	3:00	34.37
2/4/2014	DA LMP - Price	INDIANA.HUB	4:00	35.2
2/4/2014	DA LMP - Price	INDIANA.HUB	5:00	34.31
2/4/2014	DA LMP - Price	INDIANA.HUB	6:00	42.46
2/4/2014	DA LMP - Price	INDIANA.HUB	7:00	55.84
2/4/2014	DA LMP - Price	INDIANA.HUB	8:00	83.9
2/4/2014	DA LMP - Price	INDIANA.HUB	9:00	76.21
2/4/2014	DA LMP - Price	INDIANA.HUB	10:00	72.78
2/4/2014	DA LMP - Price	INDIANA.HUB	11:00	68.92
2/4/2014	DA LMP - Price	INDIANA.HUB	12:00	59.9

Trade Date	Price Type	Transaction Point	Per End	Price
2/4/2014	DA LMP - Price	INDIANA.HUB	13:00	55.47
2/4/2014	DA LMP - Price	INDIANA.HUB	14:00	49.84
2/4/2014	DA LMP - Price	INDIANA.HUB	15:00	47.53
2/4/2014	DA LMP - Price	INDIANA.HUB	16:00	44.36
2/4/2014	DA LMP - Price	INDIANA.HUB	17:00	43.64
2/4/2014	DA LMP - Price	INDIANA.HUB	18:00	54.19
2/4/2014	DA LMP - Price	INDIANA.HUB	19:00	82.99
2/4/2014	DA LMP - Price	INDIANA.HUB	20:00	75.01
2/4/2014	DA LMP - Price	INDIANA.HUB	21:00	65.1
2/4/2014	DA LMP - Price	INDIANA.HUB	22:00	54.72
2/4/2014	DA LMP - Price	INDIANA.HUB	23:00	47.15
2/4/2014	DA LMP - Price	INDIANA.HUB	24:00:00	42.5
2/5/2014	DA LMP - Price	INDIANA.HUB	1:00	33.23
2/5/2014	DA LMP - Price	INDIANA.HUB	2:00	28.35
2/5/2014	DA LMP - Price	INDIANA.HUB	3:00	28.39
2/5/2014	DA LMP - Price	INDIANA.HUB	4:00	28.26
2/5/2014	DA LMP - Price	INDIANA.HUB	5:00	28.24
2/5/2014	DA LMP - Price	INDIANA.HUB	6:00	29.42
2/5/2014	DA LMP - Price	INDIANA.HUB	7:00	37.44
2/5/2014	DA LMP - Price	INDIANA.HUB	8:00	56.6
2/5/2014	DA LMP - Price	INDIANA.HUB	9:00	57.76
2/5/2014	DA LMP - Price	INDIANA.HUB	10:00	52.95
2/5/2014	DA LMP - Price	INDIANA.HUB	11:00	50.7
2/5/2014	DA LMP - Price	INDIANA.HUB	12:00	44.66
2/5/2014	DA LMP - Price	INDIANA.HUB	13:00	39.81
2/5/2014	DA LMP - Price	INDIANA.HUB	14:00	39.14
2/5/2014	DA LMP - Price	INDIANA.HUB	15:00	36.61
2/5/2014	DA LMP - Price	INDIANA.HUB	16:00	34.92
2/5/2014	DA LMP - Price	INDIANA.HUB	17:00	34.57
2/5/2014	DA LMP - Price	INDIANA.HUB	18:00	44.68
2/5/2014	DA LMP - Price	INDIANA.HUB	19:00	74.2
2/5/2014	DA LMP - Price	INDIANA.HUB	20:00	72.37
2/5/2014	DA LMP - Price	INDIANA.HUB	21:00	66.86
2/5/2014	DA LMP - Price	INDIANA.HUB	22:00	56.51
2/5/2014	DA LMP - Price	INDIANA.HUB	23:00	45.68
2/5/2014	DA LMP - Price	INDIANA.HUB	24:00:00	37.54
2/6/2014	DA LMP - Price	INDIANA.HUB	1:00	56.76
2/6/2014	DA LMP - Price	INDIANA.HUB	2:00	52.03
2/6/2014	DA LMP - Price	INDIANA.HUB	3:00	49.29
2/6/2014	DA LMP - Price	INDIANA.HUB	4:00	50.24
2/6/2014	DA LMP - Price	INDIANA.HUB	5:00	51.23
2/6/2014	DA LMP - Price	INDIANA.HUB	6:00	58.66
2/6/2014	DA LMP - Price	INDIANA.HUB	7:00	72.84
2/6/2014	DA LMP - Price	INDIANA.HUB	8:00	127.05
2/6/2014	DA LMP - Price	INDIANA.HUB	9:00	127.41
2/6/2014	DA LMP - Price	INDIANA.HUB	10:00	106.67

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Trade Date	Price Type	Transaction Point	Per End	Price
2/6/2014	DA LMP - Price	INDIANA.HUB	11:00	108.2
2/6/2014	DA LMP - Price	INDIANA.HUB	12:00	85.33
2/6/2014	DA LMP - Price	INDIANA.HUB	13:00	70.83
2/6/2014	DA LMP - Price	INDIANA.HUB	14:00	68.25
2/6/2014	DA LMP - Price	INDIANA.HUB	15:00	64.83
2/6/2014	DA LMP - Price	INDIANA.HUB	16:00	56.7
2/6/2014	DA LMP - Price	INDIANA.HUB	17:00	54.16
2/6/2014	DA LMP - Price	INDIANA.HUB	18:00	63.82
2/6/2014	DA LMP - Price	INDIANA.HUB	19:00	137.5
2/6/2014	DA LMP - Price	INDIANA.HUB	20:00	134.61
2/6/2014	DA LMP - Price	INDIANA.HUB	21:00	113.85
2/6/2014	DA LMP - Price	INDIANA.HUB	22:00	86.66
2/6/2014	DA LMP - Price	INDIANA.HUB	23:00	70.28
2/6/2014	DA LMP - Price	INDIANA.HUB	24:00:00	58.52
2/7/2014	DA LMP - Price	INDIANA.HUB	1:00	63.88
2/7/2014	DA LMP - Price	INDIANA.HUB	2:00	62.39
2/7/2014	DA LMP - Price	INDIANA.HUB	3:00	58.94
2/7/2014	DA LMP - Price	INDIANA.HUB	4:00	58.65
2/7/2014	DA LMP - Price	INDIANA.HUB	5:00	58.25
2/7/2014	DA LMP - Price	INDIANA.HUB	6:00	71.3
2/7/2014	DA LMP - Price	INDIANA.HUB	7:00	98.86
2/7/2014	DA LMP - Price	INDIANA.HUB	8:00	156.94
2/7/2014	DA LMP - Price	INDIANA.HUB	9:00	140.55
2/7/2014	DA LMP - Price	INDIANA.HUB	10:00	117.97
2/7/2014	DA LMP - Price	INDIANA.HUB	11:00	113.98
2/7/2014	DA LMP - Price	INDIANA.HUB	12:00	95.71
2/7/2014	DA LMP - Price	INDIANA.HUB	13:00	77.2
2/7/2014	DA LMP - Price	INDIANA.HUB	14:00	69.23
2/7/2014	DA LMP - Price	INDIANA.HUB	15:00	61.46
2/7/2014	DA LMP - Price	INDIANA.HUB	16:00	55.39
2/7/2014	DA LMP - Price	INDIANA.HUB	17:00	54.51
2/7/2014	DA LMP - Price	INDIANA.HUB	18:00	65.26
2/7/2014	DA LMP - Price	INDIANA.HUB	19:00	118.68
2/7/2014	DA LMP - Price	INDIANA.HUB	20:00	104.66
2/7/2014	DA LMP - Price	INDIANA.HUB	21:00	86.54
2/7/2014	DA LMP - Price	INDIANA.HUB	22:00	74.86
2/7/2014	DA LMP - Price	INDIANA.HUB	23:00	65.47
2/7/2014	DA LMP - Price	INDIANA.HUB	24:00:00	62.42
2/8/2014	DA LMP - Price	INDIANA.HUB	1:00	68.39
2/8/2014	DA LMP - Price	INDIANA.HUB	2:00	57.99
2/8/2014	DA LMP - Price	INDIANA.HUB	3:00	52.83
2/8/2014	DA LMP - Price	INDIANA.HUB	4:00	51.58
2/8/2014	DA LMP - Price	INDIANA.HUB	5:00	49.4
2/8/2014	DA LMP - Price	INDIANA.HUB	6:00	46.93
2/8/2014	DA LMP - Price	INDIANA.HUB	7:00	53.52
2/8/2014	DA LMP - Price	INDIANA.HUB	8:00	67.83

Trade Date	Price Type	Transaction Point	Per End	Price
2/8/2014	DA LMP - Price	INDIANA.HUB	9:00	87.58
2/8/2014	DA LMP - Price	INDIANA.HUB	10:00	97.02
2/8/2014	DA LMP - Price	INDIANA.HUB	11:00	91.61
2/8/2014	DA LMP - Price	INDIANA.HUB	12:00	69.25
2/8/2014	DA LMP - Price	INDIANA.HUB	13:00	57.89
2/8/2014	DA LMP - Price	INDIANA.HUB	14:00	52.32
2/8/2014	DA LMP - Price	INDIANA.HUB	15:00	49.66
2/8/2014	DA LMP - Price	INDIANA.HUB	16:00	46.45
2/8/2014	DA LMP - Price	INDIANA.HUB	17:00	41.16
2/8/2014	DA LMP - Price	INDIANA.HUB	18:00	52.68
2/8/2014	DA LMP - Price	INDIANA.HUB	19:00	84.15
2/8/2014	DA LMP - Price	INDIANA.HUB	20:00	80.82
2/8/2014	DA LMP - Price	INDIANA.HUB	21:00	66.85
2/8/2014	DA LMP - Price	INDIANA.HUB	22:00	55.43
2/8/2014	DA LMP - Price	INDIANA.HUB	23:00	50.17
2/8/2014	DA LMP - Price	INDIANA.HUB	24:00:00	45.45
2/9/2014	DA LMP - Price	INDIANA.HUB	1:00	55.31
2/9/2014	DA LMP - Price	INDIANA.HUB	2:00	49.78
2/9/2014	DA LMP - Price	INDIANA.HUB	3:00	47
2/9/2014	DA LMP - Price	INDIANA.HUB	4:00	41.87
2/9/2014	DA LMP - Price	INDIANA.HUB	5:00	36.34
2/9/2014	DA LMP - Price	INDIANA.HUB	6:00	36.52
2/9/2014	DA LMP - Price	INDIANA.HUB	7:00	37.88
2/9/2014	DA LMP - Price	INDIANA.HUB	8:00	43.64
2/9/2014	DA LMP - Price	INDIANA.HUB	9:00	52.77
2/9/2014	DA LMP - Price	INDIANA.HUB	10:00	51.45
2/9/2014	DA LMP - Price	INDIANA.HUB	11:00	53.96
2/9/2014	DA LMP - Price	INDIANA.HUB	12:00	49.48
2/9/2014	DA LMP - Price	INDIANA.HUB	13:00	40.65
2/9/2014	DA LMP - Price	INDIANA.HUB	14:00	41.06
2/9/2014	DA LMP - Price	INDIANA.HUB	15:00	40.87
2/9/2014	DA LMP - Price	INDIANA.HUB	16:00	38.91
2/9/2014	DA LMP - Price	INDIANA.HUB	17:00	38.52
2/9/2014	DA LMP - Price	INDIANA.HUB	18:00	47.29
2/9/2014	DA LMP - Price	INDIANA.HUB	19:00	80.14
2/9/2014	DA LMP - Price	INDIANA.HUB	20:00	72.85
2/9/2014	DA LMP - Price	INDIANA.HUB	21:00	61.68
2/9/2014	DA LMP - Price	INDIANA.HUB	22:00	57.11
2/9/2014	DA LMP - Price	INDIANA.HUB	23:00	51.81
2/9/2014	DA LMP - Price	INDIANA.HUB	24:00:00	50.12
2/10/2014	DA LMP - Price	INDIANA.HUB	1:00	42.5
2/10/2014	DA LMP - Price	INDIANA.HUB	2:00	40.65
2/10/2014	DA LMP - Price	INDIANA.HUB	3:00	41.16
2/10/2014	DA LMP - Price	INDIANA.HUB	4:00	41.01
2/10/2014	DA LMP - Price	INDIANA.HUB	5:00	43.97
2/10/2014	DA LMP - Price	INDIANA.HUB	6:00	55.71

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Trade Date	Price Type	Transaction Point	Per End	Price
2/10/2014	DA LMP - Price	INDIANA.HUB	7:00	83.96
2/10/2014	DA LMP - Price	INDIANA.HUB	8:00	138.1
2/10/2014	DA LMP - Price	INDIANA.HUB	9:00	126.79
2/10/2014	DA LMP - Price	INDIANA.HUB	10:00	121.18
2/10/2014	DA LMP - Price	INDIANA.HUB	11:00	117.98
2/10/2014	DA LMP - Price	INDIANA.HUB	12:00	103.17
2/10/2014	DA LMP - Price	INDIANA.HUB	13:00	96.88
2/10/2014	DA LMP - Price	INDIANA.HUB	14:00	90.28
2/10/2014	DA LMP - Price	INDIANA.HUB	15:00	83.01
2/10/2014	DA LMP - Price	INDIANA.HUB	16:00	74.44
2/10/2014	DA LMP - Price	INDIANA.HUB	17:00	72.68
2/10/2014	DA LMP - Price	INDIANA.HUB	18:00	93.37
2/10/2014	DA LMP - Price	INDIANA.HUB	19:00	139.85
2/10/2014	DA LMP - Price	INDIANA.HUB	20:00	159.15
2/10/2014	DA LMP - Price	INDIANA.HUB	21:00	132.26
2/10/2014	DA LMP - Price	INDIANA.HUB	22:00	112.51
2/10/2014	DA LMP - Price	INDIANA.HUB	23:00	91.55
2/10/2014	DA LMP - Price	INDIANA.HUB	24:00:00	76.36
2/11/2014	DA LMP - Price	INDIANA.HUB	1:00	112.48
2/11/2014	DA LMP - Price	INDIANA.HUB	2:00	100.54
2/11/2014	DA LMP - Price	INDIANA.HUB	3:00	94.34
2/11/2014	DA LMP - Price	INDIANA.HUB	4:00	94.04
2/11/2014	DA LMP - Price	INDIANA.HUB	5:00	85.33
2/11/2014	DA LMP - Price	INDIANA.HUB	6:00	101.69
2/11/2014	DA LMP - Price	INDIANA.HUB	7:00	152.37
2/11/2014	DA LMP - Price	INDIANA.HUB	8:00	194.8
2/11/2014	DA LMP - Price	INDIANA.HUB	9:00	160.19
2/11/2014	DA LMP - Price	INDIANA.HUB	10:00	155.01
2/11/2014	DA LMP - Price	INDIANA.HUB	11:00	139.89
2/11/2014	DA LMP - Price	INDIANA.HUB	12:00	122.75
2/11/2014	DA LMP - Price	INDIANA.HUB	13:00	100.29
2/11/2014	DA LMP - Price	INDIANA.HUB	14:00	93.18
2/11/2014	DA LMP - Price	INDIANA.HUB	15:00	82.61
2/11/2014	DA LMP - Price	INDIANA.HUB	16:00	68.2
2/11/2014	DA LMP - Price	INDIANA.HUB	17:00	64.48
2/11/2014	DA LMP - Price	INDIANA.HUB	18:00	90.81
2/11/2014	DA LMP - Price	INDIANA.HUB	19:00	191.9
2/11/2014	DA LMP - Price	INDIANA.HUB	20:00	181.03
2/11/2014	DA LMP - Price	INDIANA.HUB	21:00	146.39
2/11/2014	DA LMP - Price	INDIANA.HUB	22:00	126.66
2/11/2014	DA LMP - Price	INDIANA.HUB	23:00	104.76
2/11/2014	DA LMP - Price	INDIANA.HUB	24:00:00	81.63
2/12/2014	DA LMP - Price	INDIANA.HUB	1:00	82.71
2/12/2014	DA LMP - Price	INDIANA.HUB	2:00	78.26
2/12/2014	DA LMP - Price	INDIANA.HUB	3:00	72.72
2/12/2014	DA LMP - Price	INDIANA.HUB	4:00	69.91

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Trade Date	Price Type	Transaction Point	Per End	Price
2/12/2014	DA LMP - Price	INDIANA.HUB	5:00	73.7
2/12/2014	DA LMP - Price	INDIANA.HUB	6:00	88.98
2/12/2014	DA LMP - Price	INDIANA.HUB	7:00	115.37
2/12/2014	DA LMP - Price	INDIANA.HUB	8:00	141.7
2/12/2014	DA LMP - Price	INDIANA.HUB	9:00	107.6
2/12/2014	DA LMP - Price	INDIANA.HUB	10:00	99.46
2/12/2014	DA LMP - Price	INDIANA.HUB	11:00	89.72
2/12/2014	DA LMP - Price	INDIANA.HUB	12:00	83.47
2/12/2014	DA LMP - Price	INDIANA.HUB	13:00	79.1
2/12/2014	DA LMP - Price	INDIANA.HUB	14:00	76.21
2/12/2014	DA LMP - Price	INDIANA.HUB	15:00	71.87
2/12/2014	DA LMP - Price	INDIANA.HUB	16:00	60.06
2/12/2014	DA LMP - Price	INDIANA.HUB	17:00	59.67
2/12/2014	DA LMP - Price	INDIANA.HUB	18:00	75
2/12/2014	DA LMP - Price	INDIANA.HUB	19:00	123.54
2/12/2014	DA LMP - Price	INDIANA.HUB	20:00	117.17
2/12/2014	DA LMP - Price	INDIANA.HUB	21:00	98.08
2/12/2014	DA LMP - Price	INDIANA.HUB	22:00	83.5
2/12/2014	DA LMP - Price	INDIANA.HUB	23:00	79.69
2/12/2014	DA LMP - Price	INDIANA.HUB	24:00:00	62.96
2/13/2014	DA LMP - Price	INDIANA.HUB	1:00	48.25
2/13/2014	DA LMP - Price	INDIANA.HUB	2:00	48.75
2/13/2014	DA LMP - Price	INDIANA.HUB	3:00	48.92
2/13/2014	DA LMP - Price	INDIANA.HUB	4:00	49.27
2/13/2014	DA LMP - Price	INDIANA.HUB	5:00	54.14
2/13/2014	DA LMP - Price	INDIANA.HUB	6:00	63.53
2/13/2014	DA LMP - Price	INDIANA.HUB	7:00	81.89
2/13/2014	DA LMP - Price	INDIANA.HUB	8:00	115.07
2/13/2014	DA LMP - Price	INDIANA.HUB	9:00	98.13
2/13/2014	DA LMP - Price	INDIANA.HUB	10:00	79.81
2/13/2014	DA LMP - Price	INDIANA.HUB	11:00	72.65
2/13/2014	DA LMP - Price	INDIANA.HUB	12:00	58.3
2/13/2014	DA LMP - Price	INDIANA.HUB	13:00	56.01
2/13/2014	DA LMP - Price	INDIANA.HUB	14:00	52.49
2/13/2014	DA LMP - Price	INDIANA.HUB	15:00	46.94
2/13/2014	DA LMP - Price	INDIANA.HUB	16:00	44.36
2/13/2014	DA LMP - Price	INDIANA.HUB	17:00	43.38
2/13/2014	DA LMP - Price	INDIANA.HUB	18:00	45.02
2/13/2014	DA LMP - Price	INDIANA.HUB	19:00	77.95
2/13/2014	DA LMP - Price	INDIANA.HUB	20:00	82.49
2/13/2014	DA LMP - Price	INDIANA.HUB	21:00	67.79
2/13/2014	DA LMP - Price	INDIANA.HUB	22:00	61.94
2/13/2014	DA LMP - Price	INDIANA.HUB	23:00	56.11
2/13/2014	DA LMP - Price	INDIANA.HUB	24:00:00	40.92
2/14/2014	DA LMP - Price	INDIANA.HUB	1:00	36.23
2/14/2014	DA LMP - Price	INDIANA.HUB	2:00	34.3

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Trade Date	Price Type	Transaction Point	Per End	Price
2/14/2014	DA LMP - Price	INDIANA.HUB	3:00	34.59
2/14/2014	DA LMP - Price	INDIANA.HUB	4:00	33.94
2/14/2014	DA LMP - Price	INDIANA.HUB	5:00	32.93
2/14/2014	DA LMP - Price	INDIANA.HUB	6:00	39
2/14/2014	DA LMP - Price	INDIANA.HUB	7:00	62.62
2/14/2014	DA LMP - Price	INDIANA.HUB	8:00	75.39
2/14/2014	DA LMP - Price	INDIANA.HUB	9:00	70.04
2/14/2014	DA LMP - Price	INDIANA.HUB	10:00	66.05
2/14/2014	DA LMP - Price	INDIANA.HUB	11:00	56.15
2/14/2014	DA LMP - Price	INDIANA.HUB	12:00	54.68
2/14/2014	DA LMP - Price	INDIANA.HUB	13:00	50.72
2/14/2014	DA LMP - Price	INDIANA.HUB	14:00	48.2
2/14/2014	DA LMP - Price	INDIANA.HUB	15:00	45.67
2/14/2014	DA LMP - Price	INDIANA.HUB	16:00	42.98
2/14/2014	DA LMP - Price	INDIANA.HUB	17:00	38.67
2/14/2014	DA LMP - Price	INDIANA.HUB	18:00	44.89
2/14/2014	DA LMP - Price	INDIANA.HUB	19:00	71.61
2/14/2014	DA LMP - Price	INDIANA.HUB	20:00	75.77
2/14/2014	DA LMP - Price	INDIANA.HUB	21:00	63.71
2/14/2014	DA LMP - Price	INDIANA.HUB	22:00	57.39
2/14/2014	DA LMP - Price	INDIANA.HUB	23:00	53.17
2/14/2014	DA LMP - Price	INDIANA.HUB	24:00:00	50.35
2/15/2014	DA LMP - Price	INDIANA.HUB	1:00	44.51
2/15/2014	DA LMP - Price	INDIANA.HUB	2:00	39.14
2/15/2014	DA LMP - Price	INDIANA.HUB	3:00	36.23
2/15/2014	DA LMP - Price	INDIANA.HUB	4:00	32.5
2/15/2014	DA LMP - Price	INDIANA.HUB	5:00	32.34
2/15/2014	DA LMP - Price	INDIANA.HUB	6:00	32.89
2/15/2014	DA LMP - Price	INDIANA.HUB	7:00	45.33
2/15/2014	DA LMP - Price	INDIANA.HUB	8:00	60.4
2/15/2014	DA LMP - Price	INDIANA.HUB	9:00	76.54
2/15/2014	DA LMP - Price	INDIANA.HUB	10:00	76.67
2/15/2014	DA LMP - Price	INDIANA.HUB	11:00	63.54
2/15/2014	DA LMP - Price	INDIANA.HUB	12:00	52.53
2/15/2014	DA LMP - Price	INDIANA.HUB	13:00	43.5
2/15/2014	DA LMP - Price	INDIANA.HUB	14:00	40.1
2/15/2014	DA LMP - Price	INDIANA.HUB	15:00	38.89
2/15/2014	DA LMP - Price	INDIANA.HUB	16:00	35.73
2/15/2014	DA LMP - Price	INDIANA.HUB	17:00	34.96
2/15/2014	DA LMP - Price	INDIANA.HUB	18:00	42.97
2/15/2014	DA LMP - Price	INDIANA.HUB	19:00	63.49
2/15/2014	DA LMP - Price	INDIANA.HUB	20:00	63.77
2/15/2014	DA LMP - Price	INDIANA.HUB	21:00	55.1
2/15/2014	DA LMP - Price	INDIANA.HUB	22:00	52.21
2/15/2014	DA LMP - Price	INDIANA.HUB	23:00	42.5
2/15/2014	DA LMP - Price	INDIANA.HUB	24:00:00	36.52

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Trade Date	Price Type	Transaction Poin	Per End	Price
2/16/2014	DA LMP - Price	INDIANA.HUB	1:00	39.05
2/16/2014	DA LMP - Price	INDIANA.HUB	2:00	36.41
2/16/2014	DA LMP - Price	INDIANA.HUB	3:00	36.71
2/16/2014	DA LMP - Price	INDIANA.HUB	4:00	33.24
2/16/2014	DA LMP - Price	INDIANA.HUB	5:00	31.59
2/16/2014	DA LMP - Price	INDIANA.HUB	6:00	32.31
2/16/2014	DA LMP - Price	INDIANA.HUB	7:00	36.49
2/16/2014	DA LMP - Price	INDIANA.HUB	8:00	39.63
2/16/2014	DA LMP - Price	INDIANA.HUB	9:00	49.66
2/16/2014	DA LMP - Price	INDIANA.HUB	10:00	61.2
2/16/2014	DA LMP - Price	INDIANA.HUB	11:00	46.54
2/16/2014	DA LMP - Price	INDIANA.HUB	12:00	43.89
2/16/2014	DA LMP - Price	INDIANA.HUB	13:00	39.42
2/16/2014	DA LMP - Price	INDIANA.HUB	14:00	37.2
2/16/2014	DA LMP - Price	INDIANA.HUB	15:00	33.8
2/16/2014	DA LMP - Price	INDIANA.HUB	16:00	33.38
2/16/2014	DA LMP - Price	INDIANA.HUB	17:00	33.35
2/16/2014	DA LMP - Price	INDIANA.HUB	18:00	40.82
2/16/2014	DA LMP - Price	INDIANA.HUB	19:00	58.72
2/16/2014	DA LMP - Price	INDIANA.HUB	20:00	66.73
2/16/2014	DA LMP - Price	INDIANA.HUB	21:00	61.7
2/16/2014	DA LMP - Price	INDIANA.HUB	22:00	58.54
2/16/2014	DA LMP - Price	INDIANA.HUB	23:00	39.21
2/16/2014	DA LMP - Price	INDIANA.HUB	24:00:00	34.3
2/17/2014	DA LMP - Price	INDIANA.HUB	1:00	44.13
2/17/2014	DA LMP - Price	INDIANA.HUB	2:00	40.31
2/17/2014	DA LMP - Price	INDIANA.HUB	3:00	41.26
2/17/2014	DA LMP - Price	INDIANA.HUB	4:00	38.92
2/17/2014	DA LMP - Price	INDIANA.HUB	5:00	42.75
2/17/2014	DA LMP - Price	INDIANA.HUB	6:00	55.45
2/17/2014	DA LMP - Price	INDIANA.HUB	7:00	75.36
2/17/2014	DA LMP - Price	INDIANA.HUB	8:00	83.85
2/17/2014	DA LMP - Price	INDIANA.HUB	9:00	73.78
2/17/2014	DA LMP - Price	INDIANA.HUB	10:00	79.86
2/17/2014	DA LMP - Price	INDIANA.HUB	11:00	76.24
2/17/2014	DA LMP - Price	INDIANA.HUB	12:00	72.11
2/17/2014	DA LMP - Price	INDIANA.HUB	13:00	62.9
2/17/2014	DA LMP - Price	INDIANA.HUB	14:00	55.04
2/17/2014	DA LMP - Price	INDIANA.HUB	15:00	51.93
2/17/2014	DA LMP - Price	INDIANA.HUB	16:00	44.48
2/17/2014	DA LMP - Price	INDIANA.HUB	17:00	44.75
2/17/2014	DA LMP - Price	INDIANA.HUB	18:00	54.8
2/17/2014	DA LMP - Price	INDIANA.HUB	19:00	79.79
2/17/2014	DA LMP - Price	INDIANA.HUB	20:00	79.9
2/17/2014	DA LMP - Price	INDIANA.HUB	21:00	74.06
2/17/2014	DA LMP - Price	INDIANA.HUB	22:00	61.55

Trade Date	Price Type	Transaction Point	Per End	Price
2/17/2014	DA LMP - Price	INDIANA.HUB	23:00	53.22
2/17/2014	DA LMP - Price	INDIANA.HUB	24:00:00	42.09
2/18/2014	DA LMP - Price	INDIANA.HUB	1:00	30.6
2/18/2014	DA LMP - Price	INDIANA.HUB	2:00	28.18
2/18/2014	DA LMP - Price	INDIANA.HUB	3:00	27.74
2/18/2014	DA LMP - Price	INDIANA.HUB	4:00	27.64
2/18/2014	DA LMP - Price	INDIANA.HUB	5:00	28.09
2/18/2014	DA LMP - Price	INDIANA.HUB	6:00	29.95
2/18/2014	DA LMP - Price	INDIANA.HUB	7:00	47.29
2/18/2014	DA LMP - Price	INDIANA.HUB	8:00	75.19
2/18/2014	DA LMP - Price	INDIANA.HUB	9:00	59.45
2/18/2014	DA LMP - Price	INDIANA.HUB	10:00	60.71
2/18/2014	DA LMP - Price	INDIANA.HUB	11:00	57.56
2/18/2014	DA LMP - Price	INDIANA.HUB	12:00	55.15
2/18/2014	DA LMP - Price	INDIANA.HUB	13:00	46.31
2/18/2014	DA LMP - Price	INDIANA.HUB	14:00	40.16
2/18/2014	DA LMP - Price	INDIANA.HUB	15:00	39.79
2/18/2014	DA LMP - Price	INDIANA.HUB	16:00	34.64
2/18/2014	DA LMP - Price	INDIANA.HUB	17:00	35.39
2/18/2014	DA LMP - Price	INDIANA.HUB	18:00	40.81
2/18/2014	DA LMP - Price	INDIANA.HUB	19:00	61.56
2/18/2014	DA LMP - Price	INDIANA.HUB	20:00	64.71
2/18/2014	DA LMP - Price	INDIANA.HUB	21:00	53.2
2/18/2014	DA LMP - Price	INDIANA.HUB	22:00	45.08
2/18/2014	DA LMP - Price	INDIANA.HUB	23:00	32.58
2/18/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.36
2/19/2014	DA LMP - Price	INDIANA.HUB	1:00	31.2
2/19/2014	DA LMP - Price	INDIANA.HUB	2:00	29.49
2/19/2014	DA LMP - Price	INDIANA.HUB	3:00	28.87
2/19/2014	DA LMP - Price	INDIANA.HUB	4:00	28.66
2/19/2014	DA LMP - Price	INDIANA.HUB	5:00	29.05
2/19/2014	DA LMP - Price	INDIANA.HUB	6:00	30.61
2/19/2014	DA LMP - Price	INDIANA.HUB	7:00	48.62
2/19/2014	DA LMP - Price	INDIANA.HUB	8:00	68.45
2/19/2014	DA LMP - Price	INDIANA.HUB	9:00	55.95
2/19/2014	DA LMP - Price	INDIANA.HUB	10:00	54.41
2/19/2014	DA LMP - Price	INDIANA.HUB	11:00	51.53
2/19/2014	DA LMP - Price	INDIANA.HUB	12:00	48.55
2/19/2014	DA LMP - Price	INDIANA.HUB	13:00	45.06
2/19/2014	DA LMP - Price	INDIANA.HUB	14:00	40.58
2/19/2014	DA LMP - Price	INDIANA.HUB	15:00	39.22
2/19/2014	DA LMP - Price	INDIANA.HUB	16:00	37.32
2/19/2014	DA LMP - Price	INDIANA.HUB	17:00	37.41
2/19/2014	DA LMP - Price	INDIANA.HUB	18:00	44.07
2/19/2014	DA LMP - Price	INDIANA.HUB	19:00	66.28
2/19/2014	DA LMP - Price	INDIANA.HUB	20:00	72.52

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Trade Date	Price Type	Transaction Point	Per End	Price
2/19/2014	DA LMP - Price	INDIANA.HUB	21:00	65.07
2/19/2014	DA LMP - Price	INDIANA.HUB	22:00	53.55
2/19/2014	DA LMP - Price	INDIANA.HUB	23:00	46.78
2/19/2014	DA LMP - Price	INDIANA.HUB	24:00:00	36.64
2/20/2014	DA LMP - Price	INDIANA.HUB	1:00	31.4
2/20/2014	DA LMP - Price	INDIANA.HUB	2:00	28.01
2/20/2014	DA LMP - Price	INDIANA.HUB	3:00	28.25
2/20/2014	DA LMP - Price	INDIANA.HUB	4:00	27.92
2/20/2014	DA LMP - Price	INDIANA.HUB	5:00	28.91
2/20/2014	DA LMP - Price	INDIANA.HUB	6:00	30.96
2/20/2014	DA LMP - Price	INDIANA.HUB	7:00	49.61
2/20/2014	DA LMP - Price	INDIANA.HUB	8:00	66.78
2/20/2014	DA LMP - Price	INDIANA.HUB	9:00	56.91
2/20/2014	DA LMP - Price	INDIANA.HUB	10:00	53.07
2/20/2014	DA LMP - Price	INDIANA.HUB	11:00	48.97
2/20/2014	DA LMP - Price	INDIANA.HUB	12:00	45.05
2/20/2014	DA LMP - Price	INDIANA.HUB	13:00	42.27
2/20/2014	DA LMP - Price	INDIANA.HUB	14:00	39.74
2/20/2014	DA LMP - Price	INDIANA.HUB	15:00	40.12
2/20/2014	DA LMP - Price	INDIANA.HUB	16:00	38.07
2/20/2014	DA LMP - Price	INDIANA.HUB	17:00	39.02
2/20/2014	DA LMP - Price	INDIANA.HUB	18:00	42.1
2/20/2014	DA LMP - Price	INDIANA.HUB	19:00	59.95
2/20/2014	DA LMP - Price	INDIANA.HUB	20:00	63.96
2/20/2014	DA LMP - Price	INDIANA.HUB	21:00	53.16
2/20/2014	DA LMP - Price	INDIANA.HUB	22:00	42.7
2/20/2014	DA LMP - Price	INDIANA.HUB	23:00	36.6
2/20/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.2
2/21/2014	DA LMP - Price	INDIANA.HUB	1:00	27.4
2/21/2014	DA LMP - Price	INDIANA.HUB	2:00	26.45
2/21/2014	DA LMP - Price	INDIANA.HUB	3:00	26.21
2/21/2014	DA LMP - Price	INDIANA.HUB	4:00	26.21
2/21/2014	DA LMP - Price	INDIANA.HUB	5:00	27
2/21/2014	DA LMP - Price	INDIANA.HUB	6:00	28.4
2/21/2014	DA LMP - Price	INDIANA.HUB	7:00	47.89
2/21/2014	DA LMP - Price	INDIANA.HUB	8:00	64.15
2/21/2014	DA LMP - Price	INDIANA.HUB	9:00	56.8
2/21/2014	DA LMP - Price	INDIANA.HUB	10:00	56.18
2/21/2014	DA LMP - Price	INDIANA.HUB	11:00	53.1
2/21/2014	DA LMP - Price	INDIANA.HUB	12:00	47.53
2/21/2014	DA LMP - Price	INDIANA.HUB	13:00	43.01
2/21/2014	DA LMP - Price	INDIANA.HUB	14:00	38.89
2/21/2014	DA LMP - Price	INDIANA.HUB	15:00	35.57
2/21/2014	DA LMP - Price	INDIANA.HUB	16:00	32.77
2/21/2014	DA LMP - Price	INDIANA.HUB	17:00	34.64
2/21/2014	DA LMP - Price	INDIANA.HUB	18:00	36.94

Trade Date	Price Type	Transaction Point	Per End	Price
2/21/2014	DA LMP - Price	INDIANA.HUB	19:00	54.17
2/21/2014	DA LMP - Price	INDIANA.HUB	20:00	53.99
2/21/2014	DA LMP - Price	INDIANA.HUB	21:00	48.01
2/21/2014	DA LMP - Price	INDIANA.HUB	22:00	39.03
2/21/2014	DA LMP - Price	INDIANA.HUB	23:00	32.82
2/21/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.25
2/22/2014	DA LMP - Price	INDIANA.HUB	1:00	30
2/22/2014	DA LMP - Price	INDIANA.HUB	2:00	28.48
2/22/2014	DA LMP - Price	INDIANA.HUB	3:00	28.17
2/22/2014	DA LMP - Price	INDIANA.HUB	4:00	28.01
2/22/2014	DA LMP - Price	INDIANA.HUB	5:00	27.16
2/22/2014	DA LMP - Price	INDIANA.HUB	6:00	28.41
2/22/2014	DA LMP - Price	INDIANA.HUB	7:00	31.21
2/22/2014	DA LMP - Price	INDIANA.HUB	8:00	36.03
2/22/2014	DA LMP - Price	INDIANA.HUB	9:00	42.02
2/22/2014	DA LMP - Price	INDIANA.HUB	10:00	49.11
2/22/2014	DA LMP - Price	INDIANA.HUB	11:00	50.45
2/22/2014	DA LMP - Price	INDIANA.HUB	12:00	40.53
2/22/2014	DA LMP - Price	INDIANA.HUB	13:00	35.4
2/22/2014	DA LMP - Price	INDIANA.HUB	14:00	32.93
2/22/2014	DA LMP - Price	INDIANA.HUB	15:00	31.03
2/22/2014	DA LMP - Price	INDIANA.HUB	16:00	30.04
2/22/2014	DA LMP - Price	INDIANA.HUB	17:00	30.31
2/22/2014	DA LMP - Price	INDIANA.HUB	18:00	33.16
2/22/2014	DA LMP - Price	INDIANA.HUB	19:00	50.17
2/22/2014	DA LMP - Price	INDIANA.HUB	20:00	52.12
2/22/2014	DA LMP - Price	INDIANA.HUB	21:00	46.94
2/22/2014	DA LMP - Price	INDIANA.HUB	22:00	39.82
2/22/2014	DA LMP - Price	INDIANA.HUB	23:00	33.71
2/22/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.09
2/23/2014	DA LMP - Price	INDIANA.HUB	1:00	29.77
2/23/2014	DA LMP - Price	INDIANA.HUB	2:00	29.93
2/23/2014	DA LMP - Price	INDIANA.HUB	3:00	29.58
2/23/2014	DA LMP - Price	INDIANA.HUB	4:00	29.51
2/23/2014	DA LMP - Price	INDIANA.HUB	5:00	29.35
2/23/2014	DA LMP - Price	INDIANA.HUB	6:00	29.38
2/23/2014	DA LMP - Price	INDIANA.HUB	7:00	31.97
2/23/2014	DA LMP - Price	INDIANA.HUB	8:00	32.6
2/23/2014	DA LMP - Price	INDIANA.HUB	9:00	34.96
2/23/2014	DA LMP - Price	INDIANA.HUB	10:00	40.36
2/23/2014	DA LMP - Price	INDIANA.HUB	11:00	39.01
2/23/2014	DA LMP - Price	INDIANA.HUB	12:00	37.68
2/23/2014	DA LMP - Price	INDIANA.HUB	13:00	34.01
2/23/2014	DA LMP - Price	INDIANA.HUB	14:00	32.05
2/23/2014	DA LMP - Price	INDIANA.HUB	15:00	31.39
2/23/2014	DA LMP - Price	INDIANA.HUB	16:00	30.73

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Trade Date	Price Type	Transaction Point	Per End	Price
2/23/2014	DA LMP - Price	INDIANA.HUB	17:00	31.59
2/23/2014	DA LMP - Price	INDIANA.HUB	18:00	35.93
2/23/2014	DA LMP - Price	INDIANA.HUB	19:00	56.91
2/23/2014	DA LMP - Price	INDIANA.HUB	20:00	71.51
2/23/2014	DA LMP - Price	INDIANA.HUB	21:00	52.91
2/23/2014	DA LMP - Price	INDIANA.HUB	22:00	47.39
2/23/2014	DA LMP - Price	INDIANA.HUB	23:00	44.43
2/23/2014	DA LMP - Price	INDIANA.HUB	24:00:00	36.44
2/24/2014	DA LMP - Price	INDIANA.HUB	1:00	31.79
2/24/2014	DA LMP - Price	INDIANA.HUB	2:00	30.71
2/24/2014	DA LMP - Price	INDIANA.HUB	3:00	30.28
2/24/2014	DA LMP - Price	INDIANA.HUB	4:00	30.71
2/24/2014	DA LMP - Price	INDIANA.HUB	5:00	32.88
2/24/2014	DA LMP - Price	INDIANA.HUB	6:00	37.92
2/24/2014	DA LMP - Price	INDIANA.HUB	7:00	54.82
2/24/2014	DA LMP - Price	INDIANA.HUB	8:00	125.06
2/24/2014	DA LMP - Price	INDIANA.HUB	9:00	97.17
2/24/2014	DA LMP - Price	INDIANA.HUB	10:00	100
2/24/2014	DA LMP - Price	INDIANA.HUB	11:00	90.17
2/24/2014	DA LMP - Price	INDIANA.HUB	12:00	74.56
2/24/2014	DA LMP - Price	INDIANA.HUB	13:00	67.71
2/24/2014	DA LMP - Price	INDIANA.HUB	14:00	57.81
2/24/2014	DA LMP - Price	INDIANA.HUB	15:00	51.79
2/24/2014	DA LMP - Price	INDIANA.HUB	16:00	47.92
2/24/2014	DA LMP - Price	INDIANA.HUB	17:00	47.34
2/24/2014	DA LMP - Price	INDIANA.HUB	18:00	58.2
2/24/2014	DA LMP - Price	INDIANA.HUB	19:00	113.42
2/24/2014	DA LMP - Price	INDIANA.HUB	20:00	137.15
2/24/2014	DA LMP - Price	INDIANA.HUB	21:00	106.85
2/24/2014	DA LMP - Price	INDIANA.HUB	22:00	73.33
2/24/2014	DA LMP - Price	INDIANA.HUB	23:00	60.87
2/24/2014	DA LMP - Price	INDIANA.HUB	24:00:00	48.43
2/25/2014	DA LMP - Price	INDIANA.HUB	1:00	36.15
2/25/2014	DA LMP - Price	INDIANA.HUB	2:00	31.09
2/25/2014	DA LMP - Price	INDIANA.HUB	3:00	31.08
2/25/2014	DA LMP - Price	INDIANA.HUB	4:00	31.36
2/25/2014	DA LMP - Price	INDIANA.HUB	5:00	32.82
2/25/2014	DA LMP - Price	INDIANA.HUB	6:00	36.55
2/25/2014	DA LMP - Price	INDIANA.HUB	7:00	58.64
2/25/2014	DA LMP - Price	INDIANA.HUB	8:00	95
2/25/2014	DA LMP - Price	INDIANA.HUB	9:00	65.88
2/25/2014	DA LMP - Price	INDIANA.HUB	10:00	66.36
2/25/2014	DA LMP - Price	INDIANA.HUB	11:00	61.85
2/25/2014	DA LMP - Price	INDIANA.HUB	12:00	57.35
2/25/2014	DA LMP - Price	INDIANA.HUB	13:00	54.68
2/25/2014	DA LMP - Price	INDIANA.HUB	14:00	47.71

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Trade Date	Price Type	Transaction Point	Per End	Price
2/25/2014	DA LMP - Price	INDIANA.HUB	15:00	43.5
2/25/2014	DA LMP - Price	INDIANA.HUB	16:00	41.94
2/25/2014	DA LMP - Price	INDIANA.HUB	17:00	44.37
2/25/2014	DA LMP - Price	INDIANA.HUB	18:00	50.2
2/25/2014	DA LMP - Price	INDIANA.HUB	19:00	79.52
2/25/2014	DA LMP - Price	INDIANA.HUB	20:00	112.03
2/25/2014	DA LMP - Price	INDIANA.HUB	21:00	85.71
2/25/2014	DA LMP - Price	INDIANA.HUB	22:00	64.26
2/25/2014	DA LMP - Price	INDIANA.HUB	23:00	63.89
2/25/2014	DA LMP - Price	INDIANA.HUB	24:00:00	56.36
2/26/2014	DA LMP - Price	INDIANA.HUB	1:00	41.4
2/26/2014	DA LMP - Price	INDIANA.HUB	2:00	39.61
2/26/2014	DA LMP - Price	INDIANA.HUB	3:00	37.49
2/26/2014	DA LMP - Price	INDIANA.HUB	4:00	37.79
2/26/2014	DA LMP - Price	INDIANA.HUB	5:00	40.99
2/26/2014	DA LMP - Price	INDIANA.HUB	6:00	51.45
2/26/2014	DA LMP - Price	INDIANA.HUB	7:00	86.85
2/26/2014	DA LMP - Price	INDIANA.HUB	8:00	136.56
2/26/2014	DA LMP - Price	INDIANA.HUB	9:00	104.72
2/26/2014	DA LMP - Price	INDIANA.HUB	10:00	102.31
2/26/2014	DA LMP - Price	INDIANA.HUB	11:00	96.21
2/26/2014	DA LMP - Price	INDIANA.HUB	12:00	81.55
2/26/2014	DA LMP - Price	INDIANA.HUB	13:00	76.08
2/26/2014	DA LMP - Price	INDIANA.HUB	14:00	63.89
2/26/2014	DA LMP - Price	INDIANA.HUB	15:00	57.05
2/26/2014	DA LMP - Price	INDIANA.HUB	16:00	55.25
2/26/2014	DA LMP - Price	INDIANA.HUB	17:00	52.47
2/26/2014	DA LMP - Price	INDIANA.HUB	18:00	58.61
2/26/2014	DA LMP - Price	INDIANA.HUB	19:00	102.32
2/26/2014	DA LMP - Price	INDIANA.HUB	20:00	127.1
2/26/2014	DA LMP - Price	INDIANA.HUB	21:00	96.03
2/26/2014	DA LMP - Price	INDIANA.HUB	22:00	79.72
2/26/2014	DA LMP - Price	INDIANA.HUB	23:00	65.83
2/26/2014	DA LMP - Price	INDIANA.HUB	24:00:00	58.3
2/27/2014	DA LMP - Price	INDIANA.HUB	1:00	34.12
2/27/2014	DA LMP - Price	INDIANA.HUB	2:00	31.3
2/27/2014	DA LMP - Price	INDIANA.HUB	3:00	31.39
2/27/2014	DA LMP - Price	INDIANA.HUB	4:00	31.36
2/27/2014	DA LMP - Price	INDIANA.HUB	5:00	31.27
2/27/2014	DA LMP - Price	INDIANA.HUB	6:00	37.98
2/27/2014	DA LMP - Price	INDIANA.HUB	7:00	65.37
2/27/2014	DA LMP - Price	INDIANA.HUB	8:00	114.85
2/27/2014	DA LMP - Price	INDIANA.HUB	9:00	93.11
2/27/2014	DA LMP - Price	INDIANA.HUB	10:00	89.66
2/27/2014	DA LMP - Price	INDIANA.HUB	11:00	87.7
2/27/2014	DA LMP - Price	INDIANA.HUB	12:00	79.76

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Trade Date	Price Type	Transaction Point	Per End	Price
2/27/2014	DA LMP - Price	INDIANA.HUB	13:00	71.69
2/27/2014	DA LMP - Price	INDIANA.HUB	14:00	66.62
2/27/2014	DA LMP - Price	INDIANA.HUB	15:00	58.84
2/27/2014	DA LMP - Price	INDIANA.HUB	16:00	53.51
2/27/2014	DA LMP - Price	INDIANA.HUB	17:00	55
2/27/2014	DA LMP - Price	INDIANA.HUB	18:00	64.82
2/27/2014	DA LMP - Price	INDIANA.HUB	19:00	113.75
2/27/2014	DA LMP - Price	INDIANA.HUB	20:00	151.08
2/27/2014	DA LMP - Price	INDIANA.HUB	21:00	115.08
2/27/2014	DA LMP - Price	INDIANA.HUB	22:00	80.6
2/27/2014	DA LMP - Price	INDIANA.HUB	23:00	62.53
2/27/2014	DA LMP - Price	INDIANA.HUB	24:00:00	53.96
2/28/2014	DA LMP - Price	INDIANA.HUB	1:00	51.2
2/28/2014	DA LMP - Price	INDIANA.HUB	2:00	47.7
2/28/2014	DA LMP - Price	INDIANA.HUB	3:00	44.7
2/28/2014	DA LMP - Price	INDIANA.HUB	4:00	40.96
2/28/2014	DA LMP - Price	INDIANA.HUB	5:00	43.21
2/28/2014	DA LMP - Price	INDIANA.HUB	6:00	52.27
2/28/2014	DA LMP - Price	INDIANA.HUB	7:00	100
2/28/2014	DA LMP - Price	INDIANA.HUB	8:00	148.23
2/28/2014	DA LMP - Price	INDIANA.HUB	9:00	94.49
2/28/2014	DA LMP - Price	INDIANA.HUB	10:00	84.04
2/28/2014	DA LMP - Price	INDIANA.HUB	11:00	80.11
2/28/2014	DA LMP - Price	INDIANA.HUB	12:00	65.41
2/28/2014	DA LMP - Price	INDIANA.HUB	13:00	51.81
2/28/2014	DA LMP - Price	INDIANA.HUB	14:00	46.72
2/28/2014	DA LMP - Price	INDIANA.HUB	15:00	43.02
2/28/2014	DA LMP - Price	INDIANA.HUB	16:00	41.26
2/28/2014	DA LMP - Price	INDIANA.HUB	17:00	38.05
2/28/2014	DA LMP - Price	INDIANA.HUB	18:00	42.42
2/28/2014	DA LMP - Price	INDIANA.HUB	19:00	69.09
2/28/2014	DA LMP - Price	INDIANA.HUB	20:00	94.35
2/28/2014	DA LMP - Price	INDIANA.HUB	21:00	59.43
2/28/2014	DA LMP - Price	INDIANA.HUB	22:00	49.15
2/28/2014	DA LMP - Price	INDIANA.HUB	23:00	40.43
2/28/2014	DA LMP - Price	INDIANA.HUB	24:00:00	36.17
3/1/2014	DA LMP - Price	INDIANA.HUB	1:00	37.27
3/1/2014	DA LMP - Price	INDIANA.HUB	2:00	33.7
3/1/2014	DA LMP - Price	INDIANA.HUB	3:00	32.71
3/1/2014	DA LMP - Price	INDIANA.HUB	4:00	32.09
3/1/2014	DA LMP - Price	INDIANA.HUB	5:00	31.88
3/1/2014	DA LMP - Price	INDIANA.HUB	6:00	29.94
3/1/2014	DA LMP - Price	INDIANA.HUB	7:00	31.82
3/1/2014	DA LMP - Price	INDIANA.HUB	8:00	36.32
3/1/2014	DA LMP - Price	INDIANA.HUB	9:00	43.09
3/1/2014	DA LMP - Price	INDIANA.HUB	10:00	49.69

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Trade Date	Price Type	Transaction Point	Per End	Price
3/1/2014	DA LMP - Price	INDIANA.HUB	11:00	47.42
3/1/2014	DA LMP - Price	INDIANA.HUB	12:00	40.8
3/1/2014	DA LMP - Price	INDIANA.HUB	13:00	38.06
3/1/2014	DA LMP - Price	INDIANA.HUB	14:00	36.23
3/1/2014	DA LMP - Price	INDIANA.HUB	15:00	34.81
3/1/2014	DA LMP - Price	INDIANA.HUB	16:00	32.48
3/1/2014	DA LMP - Price	INDIANA.HUB	17:00	33.54
3/1/2014	DA LMP - Price	INDIANA.HUB	18:00	38.07
3/1/2014	DA LMP - Price	INDIANA.HUB	19:00	45.07
3/1/2014	DA LMP - Price	INDIANA.HUB	20:00	50.27
3/1/2014	DA LMP - Price	INDIANA.HUB	21:00	44
3/1/2014	DA LMP - Price	INDIANA.HUB	22:00	40.34
3/1/2014	DA LMP - Price	INDIANA.HUB	23:00	35.71
3/1/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.79
3/2/2014	DA LMP - Price	INDIANA.HUB	1:00	37.37
3/2/2014	DA LMP - Price	INDIANA.HUB	2:00	34.82
3/2/2014	DA LMP - Price	INDIANA.HUB	3:00	32.43
3/2/2014	DA LMP - Price	INDIANA.HUB	4:00	31.47
3/2/2014	DA LMP - Price	INDIANA.HUB	5:00	31.04
3/2/2014	DA LMP - Price	INDIANA.HUB	6:00	30.67
3/2/2014	DA LMP - Price	INDIANA.HUB	7:00	31.94
3/2/2014	DA LMP - Price	INDIANA.HUB	8:00	34.53
3/2/2014	DA LMP - Price	INDIANA.HUB	9:00	37.49
3/2/2014	DA LMP - Price	INDIANA.HUB	10:00	42.21
3/2/2014	DA LMP - Price	INDIANA.HUB	11:00	44.28
3/2/2014	DA LMP - Price	INDIANA.HUB	12:00	44.49
3/2/2014	DA LMP - Price	INDIANA.HUB	13:00	41.57
3/2/2014	DA LMP - Price	INDIANA.HUB	14:00	40.62
3/2/2014	DA LMP - Price	INDIANA.HUB	15:00	38.96
3/2/2014	DA LMP - Price	INDIANA.HUB	16:00	37.96
3/2/2014	DA LMP - Price	INDIANA.HUB	17:00	40.08
3/2/2014	DA LMP - Price	INDIANA.HUB	18:00	44.24
3/2/2014	DA LMP - Price	INDIANA.HUB	19:00	56.82
3/2/2014	DA LMP - Price	INDIANA.HUB	20:00	82.7
3/2/2014	DA LMP - Price	INDIANA.HUB	21:00	59.43
3/2/2014	DA LMP - Price	INDIANA.HUB	22:00	51.48
3/2/2014	DA LMP - Price	INDIANA.HUB	23:00	41.45
3/2/2014	DA LMP - Price	INDIANA.HUB	24:00:00	38.34
3/3/2014	DA LMP - Price	INDIANA.HUB	1:00	41.7
3/3/2014	DA LMP - Price	INDIANA.HUB	2:00	42.12
3/3/2014	DA LMP - Price	INDIANA.HUB	3:00	42.39
3/3/2014	DA LMP - Price	INDIANA.HUB	4:00	41.72
3/3/2014	DA LMP - Price	INDIANA.HUB	5:00	42.81
3/3/2014	DA LMP - Price	INDIANA.HUB	6:00	54.04
3/3/2014	DA LMP - Price	INDIANA.HUB	7:00	103.69
3/3/2014	DA LMP - Price	INDIANA.HUB	8:00	185.23

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Trade Date	Price Type	Transaction Point	Per End	Price
3/3/2014	DA LMP - Price	INDIANA.HUB	9:00	157.87
3/3/2014	DA LMP - Price	INDIANA.HUB	10:00	144.78
3/3/2014	DA LMP - Price	INDIANA.HUB	11:00	137.14
3/3/2014	DA LMP - Price	INDIANA.HUB	12:00	120.01
3/3/2014	DA LMP - Price	INDIANA.HUB	13:00	105.65
3/3/2014	DA LMP - Price	INDIANA.HUB	14:00	83.41
3/3/2014	DA LMP - Price	INDIANA.HUB	15:00	68.21
3/3/2014	DA LMP - Price	INDIANA.HUB	16:00	59.41
3/3/2014	DA LMP - Price	INDIANA.HUB	17:00	59.44
3/3/2014	DA LMP - Price	INDIANA.HUB	18:00	70.25
3/3/2014	DA LMP - Price	INDIANA.HUB	19:00	130.79
3/3/2014	DA LMP - Price	INDIANA.HUB	20:00	199.02
3/3/2014	DA LMP - Price	INDIANA.HUB	21:00	150.94
3/3/2014	DA LMP - Price	INDIANA.HUB	22:00	114.6
3/3/2014	DA LMP - Price	INDIANA.HUB	23:00	85.25
3/3/2014	DA LMP - Price	INDIANA.HUB	24:00:00	55.25
3/4/2014	DA LMP - Price	INDIANA.HUB	1:00	118.1
3/4/2014	DA LMP - Price	INDIANA.HUB	2:00	113.85
3/4/2014	DA LMP - Price	INDIANA.HUB	3:00	110.17
3/4/2014	DA LMP - Price	INDIANA.HUB	4:00	108.79
3/4/2014	DA LMP - Price	INDIANA.HUB	5:00	116.25
3/4/2014	DA LMP - Price	INDIANA.HUB	6:00	146.38
3/4/2014	DA LMP - Price	INDIANA.HUB	7:00	249.4
3/4/2014	DA LMP - Price	INDIANA.HUB	8:00	333.11
3/4/2014	DA LMP - Price	INDIANA.HUB	9:00	304.11
3/4/2014	DA LMP - Price	INDIANA.HUB	10:00	274.34
3/4/2014	DA LMP - Price	INDIANA.HUB	11:00	249.68
3/4/2014	DA LMP - Price	INDIANA.HUB	12:00	208.65
3/4/2014	DA LMP - Price	INDIANA.HUB	13:00	180.7
3/4/2014	DA LMP - Price	INDIANA.HUB	14:00	160.29
3/4/2014	DA LMP - Price	INDIANA.HUB	15:00	128.74
3/4/2014	DA LMP - Price	INDIANA.HUB	16:00	117.5
3/4/2014	DA LMP - Price	INDIANA.HUB	17:00	112.26
3/4/2014	DA LMP - Price	INDIANA.HUB	18:00	125
3/4/2014	DA LMP - Price	INDIANA.HUB	19:00	169.2
3/4/2014	DA LMP - Price	INDIANA.HUB	20:00	278.88
3/4/2014	DA LMP - Price	INDIANA.HUB	21:00	232.22
3/4/2014	DA LMP - Price	INDIANA.HUB	22:00	202.78
3/4/2014	DA LMP - Price	INDIANA.HUB	23:00	131.99
3/4/2014	DA LMP - Price	INDIANA.HUB	24:00:00	96.22
3/5/2014	DA LMP - Price	INDIANA.HUB	1:00	61.94
3/5/2014	DA LMP - Price	INDIANA.HUB	2:00	56.36
3/5/2014	DA LMP - Price	INDIANA.HUB	3:00	55.22
3/5/2014	DA LMP - Price	INDIANA.HUB	4:00	53.11
3/5/2014	DA LMP - Price	INDIANA.HUB	5:00	50.68
3/5/2014	DA LMP - Price	INDIANA.HUB	6:00	58.41

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Trade Date	Price Type	Transaction Point	Per End	Price
3/5/2014	DA LMP - Price	INDIANA.HUB	7:00	81.08
3/5/2014	DA LMP - Price	INDIANA.HUB	8:00	136.43
3/5/2014	DA LMP - Price	INDIANA.HUB	9:00	116.43
3/5/2014	DA LMP - Price	INDIANA.HUB	10:00	95.97
3/5/2014	DA LMP - Price	INDIANA.HUB	11:00	92.11
3/5/2014	DA LMP - Price	INDIANA.HUB	12:00	85.2
3/5/2014	DA LMP - Price	INDIANA.HUB	13:00	74.13
3/5/2014	DA LMP - Price	INDIANA.HUB	14:00	61.49
3/5/2014	DA LMP - Price	INDIANA.HUB	15:00	57.42
3/5/2014	DA LMP - Price	INDIANA.HUB	16:00	55.53
3/5/2014	DA LMP - Price	INDIANA.HUB	17:00	52.21
3/5/2014	DA LMP - Price	INDIANA.HUB	18:00	55.44
3/5/2014	DA LMP - Price	INDIANA.HUB	19:00	76.52
3/5/2014	DA LMP - Price	INDIANA.HUB	20:00	114.27
3/5/2014	DA LMP - Price	INDIANA.HUB	21:00	85.6
3/5/2014	DA LMP - Price	INDIANA.HUB	22:00	79.02
3/5/2014	DA LMP - Price	INDIANA.HUB	23:00	56.97
3/5/2014	DA LMP - Price	INDIANA.HUB	24:00:00	51.66
3/6/2014	DA LMP - Price	INDIANA.HUB	1:00	41.2
3/6/2014	DA LMP - Price	INDIANA.HUB	2:00	35.5
3/6/2014	DA LMP - Price	INDIANA.HUB	3:00	34.74
3/6/2014	DA LMP - Price	INDIANA.HUB	4:00	34.16
3/6/2014	DA LMP - Price	INDIANA.HUB	5:00	33.3
3/6/2014	DA LMP - Price	INDIANA.HUB	6:00	37.35
3/6/2014	DA LMP - Price	INDIANA.HUB	7:00	67.56
3/6/2014	DA LMP - Price	INDIANA.HUB	8:00	88.65
3/6/2014	DA LMP - Price	INDIANA.HUB	9:00	70.31
3/6/2014	DA LMP - Price	INDIANA.HUB	10:00	62.03
3/6/2014	DA LMP - Price	INDIANA.HUB	11:00	58.13
3/6/2014	DA LMP - Price	INDIANA.HUB	12:00	56
3/6/2014	DA LMP - Price	INDIANA.HUB	13:00	45.59
3/6/2014	DA LMP - Price	INDIANA.HUB	14:00	42.44
3/6/2014	DA LMP - Price	INDIANA.HUB	15:00	40.19
3/6/2014	DA LMP - Price	INDIANA.HUB	16:00	38.59
3/6/2014	DA LMP - Price	INDIANA.HUB	17:00	36.96
3/6/2014	DA LMP - Price	INDIANA.HUB	18:00	42.02
3/6/2014	DA LMP - Price	INDIANA.HUB	19:00	54.91
3/6/2014	DA LMP - Price	INDIANA.HUB	20:00	72.22
3/6/2014	DA LMP - Price	INDIANA.HUB	21:00	56.76
3/6/2014	DA LMP - Price	INDIANA.HUB	22:00	49.93
3/6/2014	DA LMP - Price	INDIANA.HUB	23:00	42.3
3/6/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.92
3/7/2014	DA LMP - Price	INDIANA.HUB	1:00	31.76
3/7/2014	DA LMP - Price	INDIANA.HUB	2:00	31.63
3/7/2014	DA LMP - Price	INDIANA.HUB	3:00	30.83
3/7/2014	DA LMP - Price	INDIANA.HUB	4:00	30.77

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Trade Date	Price Type	Transaction Point	Per End	Price
3/7/2014	DA LMP - Price	INDIANA.HUB	5:00	30.56
3/7/2014	DA LMP - Price	INDIANA.HUB	6:00	30.86
3/7/2014	DA LMP - Price	INDIANA.HUB	7:00	49.66
3/7/2014	DA LMP - Price	INDIANA.HUB	8:00	59.79
3/7/2014	DA LMP - Price	INDIANA.HUB	9:00	49.13
3/7/2014	DA LMP - Price	INDIANA.HUB	10:00	45.8
3/7/2014	DA LMP - Price	INDIANA.HUB	11:00	44.19
3/7/2014	DA LMP - Price	INDIANA.HUB	12:00	40.71
3/7/2014	DA LMP - Price	INDIANA.HUB	13:00	37.77
3/7/2014	DA LMP - Price	INDIANA.HUB	14:00	35.09
3/7/2014	DA LMP - Price	INDIANA.HUB	15:00	32.38
3/7/2014	DA LMP - Price	INDIANA.HUB	16:00	30.82
3/7/2014	DA LMP - Price	INDIANA.HUB	17:00	30.48
3/7/2014	DA LMP - Price	INDIANA.HUB	18:00	32.38
3/7/2014	DA LMP - Price	INDIANA.HUB	19:00	39.6
3/7/2014	DA LMP - Price	INDIANA.HUB	20:00	44.23
3/7/2014	DA LMP - Price	INDIANA.HUB	21:00	42.9
3/7/2014	DA LMP - Price	INDIANA.HUB	22:00	38.86
3/7/2014	DA LMP - Price	INDIANA.HUB	23:00	34.56
3/7/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.55
3/8/2014	DA LMP - Price	INDIANA.HUB	1:00	37.03
3/8/2014	DA LMP - Price	INDIANA.HUB	2:00	31.55
3/8/2014	DA LMP - Price	INDIANA.HUB	3:00	30.15
3/8/2014	DA LMP - Price	INDIANA.HUB	4:00	29.87
3/8/2014	DA LMP - Price	INDIANA.HUB	5:00	29.54
3/8/2014	DA LMP - Price	INDIANA.HUB	6:00	30.91
3/8/2014	DA LMP - Price	INDIANA.HUB	7:00	35.72
3/8/2014	DA LMP - Price	INDIANA.HUB	8:00	40.09
3/8/2014	DA LMP - Price	INDIANA.HUB	9:00	45.83
3/8/2014	DA LMP - Price	INDIANA.HUB	10:00	46.44
3/8/2014	DA LMP - Price	INDIANA.HUB	11:00	46.02
3/8/2014	DA LMP - Price	INDIANA.HUB	12:00	43.43
3/8/2014	DA LMP - Price	INDIANA.HUB	13:00	41.41
3/8/2014	DA LMP - Price	INDIANA.HUB	14:00	39.42
3/8/2014	DA LMP - Price	INDIANA.HUB	15:00	37.89
3/8/2014	DA LMP - Price	INDIANA.HUB	16:00	35.15
3/8/2014	DA LMP - Price	INDIANA.HUB	17:00	34.62
3/8/2014	DA LMP - Price	INDIANA.HUB	18:00	37.56
3/8/2014	DA LMP - Price	INDIANA.HUB	19:00	43.2
3/8/2014	DA LMP - Price	INDIANA.HUB	20:00	51.38
3/8/2014	DA LMP - Price	INDIANA.HUB	21:00	46
3/8/2014	DA LMP - Price	INDIANA.HUB	22:00	42
3/8/2014	DA LMP - Price	INDIANA.HUB	23:00	39.18
3/8/2014	DA LMP - Price	INDIANA.HUB	24:00:00	35.35
3/9/2014	DA LMP - Price	INDIANA.HUB	1:00	32.72
3/9/2014	DA LMP - Price	INDIANA.HUB	2:00	32.27

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Trade Date	Price Type	Transaction Point	Per End	Price
3/9/2014	DA LMP - Price	INDIANA.HUB	3:00	29.72
3/9/2014	DA LMP - Price	INDIANA.HUB	4:00	28.19
3/9/2014	DA LMP - Price	INDIANA.HUB	5:00	28.69
3/9/2014	DA LMP - Price	INDIANA.HUB	6:00	30.11
3/9/2014	DA LMP - Price	INDIANA.HUB	7:00	35.3
3/9/2014	DA LMP - Price	INDIANA.HUB	8:00	40.01
3/9/2014	DA LMP - Price	INDIANA.HUB	9:00	43.16
3/9/2014	DA LMP - Price	INDIANA.HUB	10:00	44.27
3/9/2014	DA LMP - Price	INDIANA.HUB	11:00	43.27
3/9/2014	DA LMP - Price	INDIANA.HUB	12:00	40.71
3/9/2014	DA LMP - Price	INDIANA.HUB	13:00	38.25
3/9/2014	DA LMP - Price	INDIANA.HUB	14:00	35.22
3/9/2014	DA LMP - Price	INDIANA.HUB	15:00	32.35
3/9/2014	DA LMP - Price	INDIANA.HUB	16:00	32.58
3/9/2014	DA LMP - Price	INDIANA.HUB	17:00	32.85
3/9/2014	DA LMP - Price	INDIANA.HUB	18:00	34.16
3/9/2014	DA LMP - Price	INDIANA.HUB	19:00	40.73
3/9/2014	DA LMP - Price	INDIANA.HUB	20:00	50.76
3/9/2014	DA LMP - Price	INDIANA.HUB	21:00	44.7
3/9/2014	DA LMP - Price	INDIANA.HUB	22:00	39.05
3/9/2014	DA LMP - Price	INDIANA.HUB	23:00	31.83
3/9/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.2
3/10/2014	DA LMP - Price	INDIANA.HUB	1:00	28.06
3/10/2014	DA LMP - Price	INDIANA.HUB	2:00	26.98
3/10/2014	DA LMP - Price	INDIANA.HUB	3:00	26.34
3/10/2014	DA LMP - Price	INDIANA.HUB	4:00	26.1
3/10/2014	DA LMP - Price	INDIANA.HUB	5:00	29.45
3/10/2014	DA LMP - Price	INDIANA.HUB	6:00	37.47
3/10/2014	DA LMP - Price	INDIANA.HUB	7:00	55.89
3/10/2014	DA LMP - Price	INDIANA.HUB	8:00	60.86
3/10/2014	DA LMP - Price	INDIANA.HUB	9:00	54.58
3/10/2014	DA LMP - Price	INDIANA.HUB	10:00	54.26
3/10/2014	DA LMP - Price	INDIANA.HUB	11:00	49.48
3/10/2014	DA LMP - Price	INDIANA.HUB	12:00	45.43
3/10/2014	DA LMP - Price	INDIANA.HUB	13:00	43.17
3/10/2014	DA LMP - Price	INDIANA.HUB	14:00	41.16
3/10/2014	DA LMP - Price	INDIANA.HUB	15:00	38.98
3/10/2014	DA LMP - Price	INDIANA.HUB	16:00	38.67
3/10/2014	DA LMP - Price	INDIANA.HUB	17:00	39.76
3/10/2014	DA LMP - Price	INDIANA.HUB	18:00	41.28
3/10/2014	DA LMP - Price	INDIANA.HUB	19:00	47.66
3/10/2014	DA LMP - Price	INDIANA.HUB	20:00	60.04
3/10/2014	DA LMP - Price	INDIANA.HUB	21:00	54.51
3/10/2014	DA LMP - Price	INDIANA.HUB	22:00	42.31
3/10/2014	DA LMP - Price	INDIANA.HUB	23:00	33.77
3/10/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.14

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Trade Date	Price Type	Transaction Point	Per End	Price
3/11/2014	DA LMP - Price	INDIANA.HUB	1:00	28.47
3/11/2014	DA LMP - Price	INDIANA.HUB	2:00	26.06
3/11/2014	DA LMP - Price	INDIANA.HUB	3:00	25.64
3/11/2014	DA LMP - Price	INDIANA.HUB	4:00	25.65
3/11/2014	DA LMP - Price	INDIANA.HUB	5:00	27.74
3/11/2014	DA LMP - Price	INDIANA.HUB	6:00	34.83
3/11/2014	DA LMP - Price	INDIANA.HUB	7:00	56.03
3/11/2014	DA LMP - Price	INDIANA.HUB	8:00	47.55
3/11/2014	DA LMP - Price	INDIANA.HUB	9:00	42.53
3/11/2014	DA LMP - Price	INDIANA.HUB	10:00	38.2
3/11/2014	DA LMP - Price	INDIANA.HUB	11:00	38.24
3/11/2014	DA LMP - Price	INDIANA.HUB	12:00	36.71
3/11/2014	DA LMP - Price	INDIANA.HUB	13:00	35.32
3/11/2014	DA LMP - Price	INDIANA.HUB	14:00	33.86
3/11/2014	DA LMP - Price	INDIANA.HUB	15:00	31.09
3/11/2014	DA LMP - Price	INDIANA.HUB	16:00	30.18
3/11/2014	DA LMP - Price	INDIANA.HUB	17:00	31.14
3/11/2014	DA LMP - Price	INDIANA.HUB	18:00	33.23
3/11/2014	DA LMP - Price	INDIANA.HUB	19:00	36.29
3/11/2014	DA LMP - Price	INDIANA.HUB	20:00	46.88
3/11/2014	DA LMP - Price	INDIANA.HUB	21:00	37.51
3/11/2014	DA LMP - Price	INDIANA.HUB	22:00	31.1
3/11/2014	DA LMP - Price	INDIANA.HUB	23:00	27.44
3/11/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.84
3/12/2014	DA LMP - Price	INDIANA.HUB	1:00	24.43
3/12/2014	DA LMP - Price	INDIANA.HUB	2:00	20.9
3/12/2014	DA LMP - Price	INDIANA.HUB	3:00	20.83
3/12/2014	DA LMP - Price	INDIANA.HUB	4:00	20.74
3/12/2014	DA LMP - Price	INDIANA.HUB	5:00	21.88
3/12/2014	DA LMP - Price	INDIANA.HUB	6:00	30.04
3/12/2014	DA LMP - Price	INDIANA.HUB	7:00	49.6
3/12/2014	DA LMP - Price	INDIANA.HUB	8:00	44.96
3/12/2014	DA LMP - Price	INDIANA.HUB	9:00	42.77
3/12/2014	DA LMP - Price	INDIANA.HUB	10:00	42.56
3/12/2014	DA LMP - Price	INDIANA.HUB	11:00	43.03
3/12/2014	DA LMP - Price	INDIANA.HUB	12:00	42.43
3/12/2014	DA LMP - Price	INDIANA.HUB	13:00	40.77
3/12/2014	DA LMP - Price	INDIANA.HUB	14:00	40.19
3/12/2014	DA LMP - Price	INDIANA.HUB	15:00	38.2
3/12/2014	DA LMP - Price	INDIANA.HUB	16:00	37.85
3/12/2014	DA LMP - Price	INDIANA.HUB	17:00	38.02
3/12/2014	DA LMP - Price	INDIANA.HUB	18:00	40.48
3/12/2014	DA LMP - Price	INDIANA.HUB	19:00	51.39
3/12/2014	DA LMP - Price	INDIANA.HUB	20:00	78.56
3/12/2014	DA LMP - Price	INDIANA.HUB	21:00	61.88
3/12/2014	DA LMP - Price	INDIANA.HUB	22:00	50.78

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Trade Date	Price Type	Transaction Point	Per End	Price
3/12/2014	DA LMP - Price	INDIANA.HUB	23:00	35.92
3/12/2014	DA LMP - Price	INDIANA.HUB	24:00:00	36.32
3/13/2014	DA LMP - Price	INDIANA.HUB	1:00	33.73
3/13/2014	DA LMP - Price	INDIANA.HUB	2:00	34.12
3/13/2014	DA LMP - Price	INDIANA.HUB	3:00	34.5
3/13/2014	DA LMP - Price	INDIANA.HUB	4:00	35.09
3/13/2014	DA LMP - Price	INDIANA.HUB	5:00	38.9
3/13/2014	DA LMP - Price	INDIANA.HUB	6:00	47.08
3/13/2014	DA LMP - Price	INDIANA.HUB	7:00	89.51
3/13/2014	DA LMP - Price	INDIANA.HUB	8:00	80.53
3/13/2014	DA LMP - Price	INDIANA.HUB	9:00	71.48
3/13/2014	DA LMP - Price	INDIANA.HUB	10:00	66.95
3/13/2014	DA LMP - Price	INDIANA.HUB	11:00	54.99
3/13/2014	DA LMP - Price	INDIANA.HUB	12:00	49.98
3/13/2014	DA LMP - Price	INDIANA.HUB	13:00	43.85
3/13/2014	DA LMP - Price	INDIANA.HUB	14:00	40.41
3/13/2014	DA LMP - Price	INDIANA.HUB	15:00	38.45
3/13/2014	DA LMP - Price	INDIANA.HUB	16:00	39.08
3/13/2014	DA LMP - Price	INDIANA.HUB	17:00	38.66
3/13/2014	DA LMP - Price	INDIANA.HUB	18:00	40.79
3/13/2014	DA LMP - Price	INDIANA.HUB	19:00	53.82
3/13/2014	DA LMP - Price	INDIANA.HUB	20:00	75.84
3/13/2014	DA LMP - Price	INDIANA.HUB	21:00	61.93
3/13/2014	DA LMP - Price	INDIANA.HUB	22:00	45.91
3/13/2014	DA LMP - Price	INDIANA.HUB	23:00	36.02
3/13/2014	DA LMP - Price	INDIANA.HUB	24:00:00	34.23
3/14/2014	DA LMP - Price	INDIANA.HUB	1:00	30.7
3/14/2014	DA LMP - Price	INDIANA.HUB	2:00	27.84
3/14/2014	DA LMP - Price	INDIANA.HUB	3:00	27.08
3/14/2014	DA LMP - Price	INDIANA.HUB	4:00	27.48
3/14/2014	DA LMP - Price	INDIANA.HUB	5:00	31.96
3/14/2014	DA LMP - Price	INDIANA.HUB	6:00	41.21
3/14/2014	DA LMP - Price	INDIANA.HUB	7:00	61.98
3/14/2014	DA LMP - Price	INDIANA.HUB	8:00	52.78
3/14/2014	DA LMP - Price	INDIANA.HUB	9:00	44.79
3/14/2014	DA LMP - Price	INDIANA.HUB	10:00	43.12
3/14/2014	DA LMP - Price	INDIANA.HUB	11:00	40.84
3/14/2014	DA LMP - Price	INDIANA.HUB	12:00	38.68
3/14/2014	DA LMP - Price	INDIANA.HUB	13:00	37.68
3/14/2014	DA LMP - Price	INDIANA.HUB	14:00	35.97
3/14/2014	DA LMP - Price	INDIANA.HUB	15:00	33.52
3/14/2014	DA LMP - Price	INDIANA.HUB	16:00	32.7
3/14/2014	DA LMP - Price	INDIANA.HUB	17:00	33.26
3/14/2014	DA LMP - Price	INDIANA.HUB	18:00	34.41
3/14/2014	DA LMP - Price	INDIANA.HUB	19:00	36.42
3/14/2014	DA LMP - Price	INDIANA.HUB	20:00	44.54

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Trade Date	Price Type	Transaction Point	Per End	Price
3/14/2014	DA LMP - Price	INDIANA.HUB	21:00	42.08
3/14/2014	DA LMP - Price	INDIANA.HUB	22:00	37.83
3/14/2014	DA LMP - Price	INDIANA.HUB	23:00	32.14
3/14/2014	DA LMP - Price	INDIANA.HUB	24:00:00	32.25
3/15/2014	DA LMP - Price	INDIANA.HUB	1:00	28.93
3/15/2014	DA LMP - Price	INDIANA.HUB	2:00	27.85
3/15/2014	DA LMP - Price	INDIANA.HUB	3:00	27.58
3/15/2014	DA LMP - Price	INDIANA.HUB	4:00	27.41
3/15/2014	DA LMP - Price	INDIANA.HUB	5:00	27.45
3/15/2014	DA LMP - Price	INDIANA.HUB	6:00	28.71
3/15/2014	DA LMP - Price	INDIANA.HUB	7:00	35.02
3/15/2014	DA LMP - Price	INDIANA.HUB	8:00	37.09
3/15/2014	DA LMP - Price	INDIANA.HUB	9:00	38.54
3/15/2014	DA LMP - Price	INDIANA.HUB	10:00	40.58
3/15/2014	DA LMP - Price	INDIANA.HUB	11:00	38.81
3/15/2014	DA LMP - Price	INDIANA.HUB	12:00	36.24
3/15/2014	DA LMP - Price	INDIANA.HUB	13:00	32.38
3/15/2014	DA LMP - Price	INDIANA.HUB	14:00	31.22
3/15/2014	DA LMP - Price	INDIANA.HUB	15:00	29.41
3/15/2014	DA LMP - Price	INDIANA.HUB	16:00	29.21
3/15/2014	DA LMP - Price	INDIANA.HUB	17:00	29.84
3/15/2014	DA LMP - Price	INDIANA.HUB	18:00	30.53
3/15/2014	DA LMP - Price	INDIANA.HUB	19:00	31.28
3/15/2014	DA LMP - Price	INDIANA.HUB	20:00	38.52
3/15/2014	DA LMP - Price	INDIANA.HUB	21:00	36.16
3/15/2014	DA LMP - Price	INDIANA.HUB	22:00	31.29
3/15/2014	DA LMP - Price	INDIANA.HUB	23:00	30.99
3/15/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.42
3/16/2014	DA LMP - Price	INDIANA.HUB	1:00	29.2
3/16/2014	DA LMP - Price	INDIANA.HUB	2:00	28.19
3/16/2014	DA LMP - Price	INDIANA.HUB	3:00	27.94
3/16/2014	DA LMP - Price	INDIANA.HUB	4:00	28.01
3/16/2014	DA LMP - Price	INDIANA.HUB	5:00	28.16
3/16/2014	DA LMP - Price	INDIANA.HUB	6:00	30.58
3/16/2014	DA LMP - Price	INDIANA.HUB	7:00	33.91
3/16/2014	DA LMP - Price	INDIANA.HUB	8:00	36.78
3/16/2014	DA LMP - Price	INDIANA.HUB	9:00	37.55
3/16/2014	DA LMP - Price	INDIANA.HUB	10:00	39.3
3/16/2014	DA LMP - Price	INDIANA.HUB	11:00	38.04
3/16/2014	DA LMP - Price	INDIANA.HUB	12:00	37.38
3/16/2014	DA LMP - Price	INDIANA.HUB	13:00	36.65
3/16/2014	DA LMP - Price	INDIANA.HUB	14:00	35.13
3/16/2014	DA LMP - Price	INDIANA.HUB	15:00	34.94
3/16/2014	DA LMP - Price	INDIANA.HUB	16:00	34.35
3/16/2014	DA LMP - Price	INDIANA.HUB	17:00	35.2
3/16/2014	DA LMP - Price	INDIANA.HUB	18:00	36.22

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Trade Date	Price Type	Transaction Point	Per End	Price
3/16/2014	DA LMP - Price	INDIANA.HUB	19:00	42.15
3/16/2014	DA LMP - Price	INDIANA.HUB	20:00	62.06
3/16/2014	DA LMP - Price	INDIANA.HUB	21:00	50.66
3/16/2014	DA LMP - Price	INDIANA.HUB	22:00	42.47
3/16/2014	DA LMP - Price	INDIANA.HUB	23:00	38.56
3/16/2014	DA LMP - Price	INDIANA.HUB	24:00:00	37.76
3/17/2014	DA LMP - Price	INDIANA.HUB	1:00	37.03
3/17/2014	DA LMP - Price	INDIANA.HUB	2:00	36.47
3/17/2014	DA LMP - Price	INDIANA.HUB	3:00	36.29
3/17/2014	DA LMP - Price	INDIANA.HUB	4:00	37.05
3/17/2014	DA LMP - Price	INDIANA.HUB	5:00	41.03
3/17/2014	DA LMP - Price	INDIANA.HUB	6:00	57.38
3/17/2014	DA LMP - Price	INDIANA.HUB	7:00	90.45
3/17/2014	DA LMP - Price	INDIANA.HUB	8:00	77.23
3/17/2014	DA LMP - Price	INDIANA.HUB	9:00	65.28
3/17/2014	DA LMP - Price	INDIANA.HUB	10:00	57.09
3/17/2014	DA LMP - Price	INDIANA.HUB	11:00	51.45
3/17/2014	DA LMP - Price	INDIANA.HUB	12:00	46.19
3/17/2014	DA LMP - Price	INDIANA.HUB	13:00	42.1
3/17/2014	DA LMP - Price	INDIANA.HUB	14:00	42.76
3/17/2014	DA LMP - Price	INDIANA.HUB	15:00	40.42
3/17/2014	DA LMP - Price	INDIANA.HUB	16:00	38.54
3/17/2014	DA LMP - Price	INDIANA.HUB	17:00	38.13
3/17/2014	DA LMP - Price	INDIANA.HUB	18:00	38.45
3/17/2014	DA LMP - Price	INDIANA.HUB	19:00	44.32
3/17/2014	DA LMP - Price	INDIANA.HUB	20:00	68.69
3/17/2014	DA LMP - Price	INDIANA.HUB	21:00	50.33
3/17/2014	DA LMP - Price	INDIANA.HUB	22:00	43.29
3/17/2014	DA LMP - Price	INDIANA.HUB	23:00	39.62
3/17/2014	DA LMP - Price	INDIANA.HUB	24:00:00	37.61
3/18/2014	DA LMP - Price	INDIANA.HUB	1:00	33.06
3/18/2014	DA LMP - Price	INDIANA.HUB	2:00	31.03
3/18/2014	DA LMP - Price	INDIANA.HUB	3:00	30.22
3/18/2014	DA LMP - Price	INDIANA.HUB	4:00	30.38
3/18/2014	DA LMP - Price	INDIANA.HUB	5:00	33.91
3/18/2014	DA LMP - Price	INDIANA.HUB	6:00	45.43
3/18/2014	DA LMP - Price	INDIANA.HUB	7:00	69.26
3/18/2014	DA LMP - Price	INDIANA.HUB	8:00	64.74
3/18/2014	DA LMP - Price	INDIANA.HUB	9:00	51.28
3/18/2014	DA LMP - Price	INDIANA.HUB	10:00	45.89
3/18/2014	DA LMP - Price	INDIANA.HUB	11:00	43.4
3/18/2014	DA LMP - Price	INDIANA.HUB	12:00	40.86
3/18/2014	DA LMP - Price	INDIANA.HUB	13:00	38.87
3/18/2014	DA LMP - Price	INDIANA.HUB	14:00	37.8
3/18/2014	DA LMP - Price	INDIANA.HUB	15:00	34.99
3/18/2014	DA LMP - Price	INDIANA.HUB	16:00	32.8

Trade Date	Price Type	Transaction Point	Per End	Price
3/18/2014	DA LMP - Price	INDIANA.HUB	17:00	32.79
3/18/2014	DA LMP - Price	INDIANA.HUB	18:00	33.35
3/18/2014	DA LMP - Price	INDIANA.HUB	19:00	37.71
3/18/2014	DA LMP - Price	INDIANA.HUB	20:00	52.7
3/18/2014	DA LMP - Price	INDIANA.HUB	21:00	44.43
3/18/2014	DA LMP - Price	INDIANA.HUB	22:00	37.36
3/18/2014	DA LMP - Price	INDIANA.HUB	23:00	32.11
3/18/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.93
3/19/2014	DA LMP - Price	INDIANA.HUB	1:00	25.31
3/19/2014	DA LMP - Price	INDIANA.HUB	2:00	22.4
3/19/2014	DA LMP - Price	INDIANA.HUB	3:00	22.72
3/19/2014	DA LMP - Price	INDIANA.HUB	4:00	23.61
3/19/2014	DA LMP - Price	INDIANA.HUB	5:00	26.6
3/19/2014	DA LMP - Price	INDIANA.HUB	6:00	38.06
3/19/2014	DA LMP - Price	INDIANA.HUB	7:00	48.55
3/19/2014	DA LMP - Price	INDIANA.HUB	8:00	41.44
3/19/2014	DA LMP - Price	INDIANA.HUB	9:00	39.68
3/19/2014	DA LMP - Price	INDIANA.HUB	10:00	36.47
3/19/2014	DA LMP - Price	INDIANA.HUB	11:00	36.36
3/19/2014	DA LMP - Price	INDIANA.HUB	12:00	34.47
3/19/2014	DA LMP - Price	INDIANA.HUB	13:00	32
3/19/2014	DA LMP - Price	INDIANA.HUB	14:00	30.77
3/19/2014	DA LMP - Price	INDIANA.HUB	15:00	28.38
3/19/2014	DA LMP - Price	INDIANA.HUB	16:00	28.3
3/19/2014	DA LMP - Price	INDIANA.HUB	17:00	28.48
3/19/2014	DA LMP - Price	INDIANA.HUB	18:00	29.61
3/19/2014	DA LMP - Price	INDIANA.HUB	19:00	33.65
3/19/2014	DA LMP - Price	INDIANA.HUB	20:00	48.64
3/19/2014	DA LMP - Price	INDIANA.HUB	21:00	43.99
3/19/2014	DA LMP - Price	INDIANA.HUB	22:00	33.86
3/19/2014	DA LMP - Price	INDIANA.HUB	23:00	29.47
3/19/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.96
3/20/2014	DA LMP - Price	INDIANA.HUB	1:00	27.55
3/20/2014	DA LMP - Price	INDIANA.HUB	2:00	26.2
3/20/2014	DA LMP - Price	INDIANA.HUB	3:00	25.74
3/20/2014	DA LMP - Price	INDIANA.HUB	4:00	26.2
3/20/2014	DA LMP - Price	INDIANA.HUB	5:00	28.79
3/20/2014	DA LMP - Price	INDIANA.HUB	6:00	41.57
3/20/2014	DA LMP - Price	INDIANA.HUB	7:00	54.81
3/20/2014	DA LMP - Price	INDIANA.HUB	8:00	46.1
3/20/2014	DA LMP - Price	INDIANA.HUB	9:00	43.47
3/20/2014	DA LMP - Price	INDIANA.HUB	10:00	40.7
3/20/2014	DA LMP - Price	INDIANA.HUB	11:00	38.82
3/20/2014	DA LMP - Price	INDIANA.HUB	12:00	35.88
3/20/2014	DA LMP - Price	INDIANA.HUB	13:00	33.63
3/20/2014	DA LMP - Price	INDIANA.HUB	14:00	32.42

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Trade Date	Price Type	Transaction Point	Per End	Price
3/20/2014	DA LMP - Price	INDIANA.HUB	15:00	31
3/20/2014	DA LMP - Price	INDIANA.HUB	16:00	29.91
3/20/2014	DA LMP - Price	INDIANA.HUB	17:00	30.67
3/20/2014	DA LMP - Price	INDIANA.HUB	18:00	32.22
3/20/2014	DA LMP - Price	INDIANA.HUB	19:00	34.63
3/20/2014	DA LMP - Price	INDIANA.HUB	20:00	47.16
3/20/2014	DA LMP - Price	INDIANA.HUB	21:00	39.84
3/20/2014	DA LMP - Price	INDIANA.HUB	22:00	34.82
3/20/2014	DA LMP - Price	INDIANA.HUB	23:00	31.03
3/20/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.25
3/21/2014	DA LMP - Price	INDIANA.HUB	1:00	31.49
3/21/2014	DA LMP - Price	INDIANA.HUB	2:00	29.6
3/21/2014	DA LMP - Price	INDIANA.HUB	3:00	29.16
3/21/2014	DA LMP - Price	INDIANA.HUB	4:00	29.19
3/21/2014	DA LMP - Price	INDIANA.HUB	5:00	31.81
3/21/2014	DA LMP - Price	INDIANA.HUB	6:00	41.52
3/21/2014	DA LMP - Price	INDIANA.HUB	7:00	66.81
3/21/2014	DA LMP - Price	INDIANA.HUB	8:00	48.57
3/21/2014	DA LMP - Price	INDIANA.HUB	9:00	45.32
3/21/2014	DA LMP - Price	INDIANA.HUB	10:00	43.26
3/21/2014	DA LMP - Price	INDIANA.HUB	11:00	40.25
3/21/2014	DA LMP - Price	INDIANA.HUB	12:00	37.7
3/21/2014	DA LMP - Price	INDIANA.HUB	13:00	36.02
3/21/2014	DA LMP - Price	INDIANA.HUB	14:00	35.59
3/21/2014	DA LMP - Price	INDIANA.HUB	15:00	35.03
3/21/2014	DA LMP - Price	INDIANA.HUB	16:00	33.74
3/21/2014	DA LMP - Price	INDIANA.HUB	17:00	33
3/21/2014	DA LMP - Price	INDIANA.HUB	18:00	32.93
3/21/2014	DA LMP - Price	INDIANA.HUB	19:00	34.61
3/21/2014	DA LMP - Price	INDIANA.HUB	20:00	45.23
3/21/2014	DA LMP - Price	INDIANA.HUB	21:00	37.85
3/21/2014	DA LMP - Price	INDIANA.HUB	22:00	34.23
3/21/2014	DA LMP - Price	INDIANA.HUB	23:00	30.09
3/21/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.66
3/22/2014	DA LMP - Price	INDIANA.HUB	1:00	27.05
3/22/2014	DA LMP - Price	INDIANA.HUB	2:00	25.63
3/22/2014	DA LMP - Price	INDIANA.HUB	3:00	25.4
3/22/2014	DA LMP - Price	INDIANA.HUB	4:00	25.41
3/22/2014	DA LMP - Price	INDIANA.HUB	5:00	26.15
3/22/2014	DA LMP - Price	INDIANA.HUB	6:00	27.73
3/22/2014	DA LMP - Price	INDIANA.HUB	7:00	32.54
3/22/2014	DA LMP - Price	INDIANA.HUB	8:00	35.01
3/22/2014	DA LMP - Price	INDIANA.HUB	9:00	39.13
3/22/2014	DA LMP - Price	INDIANA.HUB	10:00	42.52
3/22/2014	DA LMP - Price	INDIANA.HUB	11:00	41.89
3/22/2014	DA LMP - Price	INDIANA.HUB	12:00	37.43

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Trade Date	Price Type	Transaction Point	Per End	Price
3/22/2014	DA LMP - Price	INDIANA.HUB	13:00	34.07
3/22/2014	DA LMP - Price	INDIANA.HUB	14:00	33.14
3/22/2014	DA LMP - Price	INDIANA.HUB	15:00	31.87
3/22/2014	DA LMP - Price	INDIANA.HUB	16:00	31.01
3/22/2014	DA LMP - Price	INDIANA.HUB	17:00	31.35
3/22/2014	DA LMP - Price	INDIANA.HUB	18:00	32.39
3/22/2014	DA LMP - Price	INDIANA.HUB	19:00	35.12
3/22/2014	DA LMP - Price	INDIANA.HUB	20:00	49.37
3/22/2014	DA LMP - Price	INDIANA.HUB	21:00	44.34
3/22/2014	DA LMP - Price	INDIANA.HUB	22:00	37.58
3/22/2014	DA LMP - Price	INDIANA.HUB	23:00	32.4
3/22/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.65
3/23/2014	DA LMP - Price	INDIANA.HUB	1:00	31
3/23/2014	DA LMP - Price	INDIANA.HUB	2:00	29.98
3/23/2014	DA LMP - Price	INDIANA.HUB	3:00	31.3
3/23/2014	DA LMP - Price	INDIANA.HUB	4:00	31.09
3/23/2014	DA LMP - Price	INDIANA.HUB	5:00	31.1
3/23/2014	DA LMP - Price	INDIANA.HUB	6:00	33.04
3/23/2014	DA LMP - Price	INDIANA.HUB	7:00	37.73
3/23/2014	DA LMP - Price	INDIANA.HUB	8:00	37.93
3/23/2014	DA LMP - Price	INDIANA.HUB	9:00	41.5
3/23/2014	DA LMP - Price	INDIANA.HUB	10:00	43.48
3/23/2014	DA LMP - Price	INDIANA.HUB	11:00	43.49
3/23/2014	DA LMP - Price	INDIANA.HUB	12:00	40.22
3/23/2014	DA LMP - Price	INDIANA.HUB	13:00	38.14
3/23/2014	DA LMP - Price	INDIANA.HUB	14:00	36.29
3/23/2014	DA LMP - Price	INDIANA.HUB	15:00	33.7
3/23/2014	DA LMP - Price	INDIANA.HUB	16:00	32.54
3/23/2014	DA LMP - Price	INDIANA.HUB	17:00	33.79
3/23/2014	DA LMP - Price	INDIANA.HUB	18:00	35.27
3/23/2014	DA LMP - Price	INDIANA.HUB	19:00	40
3/23/2014	DA LMP - Price	INDIANA.HUB	20:00	74.17
3/23/2014	DA LMP - Price	INDIANA.HUB	21:00	53.57
3/23/2014	DA LMP - Price	INDIANA.HUB	22:00	43.51
3/23/2014	DA LMP - Price	INDIANA.HUB	23:00	35.13
3/23/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.31
3/24/2014	DA LMP - Price	INDIANA.HUB	1:00	32.2
3/24/2014	DA LMP - Price	INDIANA.HUB	2:00	31.05
3/24/2014	DA LMP - Price	INDIANA.HUB	3:00	31.28
3/24/2014	DA LMP - Price	INDIANA.HUB	4:00	31.72
3/24/2014	DA LMP - Price	INDIANA.HUB	5:00	37.36
3/24/2014	DA LMP - Price	INDIANA.HUB	6:00	50.51
3/24/2014	DA LMP - Price	INDIANA.HUB	7:00	80.52
3/24/2014	DA LMP - Price	INDIANA.HUB	8:00	76.67
3/24/2014	DA LMP - Price	INDIANA.HUB	9:00	62.23
3/24/2014	DA LMP - Price	INDIANA.HUB	10:00	54.35

Trade Date	Price Type	Transaction Point	Per End	Price
3/24/2014	DA LMP - Price	INDIANA.HUB	11:00	52.98
3/24/2014	DA LMP - Price	INDIANA.HUB	12:00	50.35
3/24/2014	DA LMP - Price	INDIANA.HUB	13:00	45.65
3/24/2014	DA LMP - Price	INDIANA.HUB	14:00	43.87
3/24/2014	DA LMP - Price	INDIANA.HUB	15:00	39.16
3/24/2014	DA LMP - Price	INDIANA.HUB	16:00	34.46
3/24/2014	DA LMP - Price	INDIANA.HUB	17:00	35.17
3/24/2014	DA LMP - Price	INDIANA.HUB	18:00	35.98
3/24/2014	DA LMP - Price	INDIANA.HUB	19:00	40.39
3/24/2014	DA LMP - Price	INDIANA.HUB	20:00	60.19
3/24/2014	DA LMP - Price	INDIANA.HUB	21:00	48.79
3/24/2014	DA LMP - Price	INDIANA.HUB	22:00	42.13
3/24/2014	DA LMP - Price	INDIANA.HUB	23:00	35.95
3/24/2014	DA LMP - Price	INDIANA.HUB	24:00:00	32.71
3/25/2014	DA LMP - Price	INDIANA.HUB	1:00	34.38
3/25/2014	DA LMP - Price	INDIANA.HUB	2:00	35.49
3/25/2014	DA LMP - Price	INDIANA.HUB	3:00	36.17
3/25/2014	DA LMP - Price	INDIANA.HUB	4:00	36.14
3/25/2014	DA LMP - Price	INDIANA.HUB	5:00	41.48
3/25/2014	DA LMP - Price	INDIANA.HUB	6:00	51.37
3/25/2014	DA LMP - Price	INDIANA.HUB	7:00	76.95
3/25/2014	DA LMP - Price	INDIANA.HUB	8:00	68.73
3/25/2014	DA LMP - Price	INDIANA.HUB	9:00	59.76
3/25/2014	DA LMP - Price	INDIANA.HUB	10:00	57.78
3/25/2014	DA LMP - Price	INDIANA.HUB	11:00	54.04
3/25/2014	DA LMP - Price	INDIANA.HUB	12:00	51.67
3/25/2014	DA LMP - Price	INDIANA.HUB	13:00	47.43
3/25/2014	DA LMP - Price	INDIANA.HUB	14:00	44.6
3/25/2014	DA LMP - Price	INDIANA.HUB	15:00	42.5
3/25/2014	DA LMP - Price	INDIANA.HUB	16:00	38.71
3/25/2014	DA LMP - Price	INDIANA.HUB	17:00	38.8
3/25/2014	DA LMP - Price	INDIANA.HUB	18:00	43.09
3/25/2014	DA LMP - Price	INDIANA.HUB	19:00	50.22
3/25/2014	DA LMP - Price	INDIANA.HUB	20:00	80.16
3/25/2014	DA LMP - Price	INDIANA.HUB	21:00	69.87
3/25/2014	DA LMP - Price	INDIANA.HUB	22:00	54.62
3/25/2014	DA LMP - Price	INDIANA.HUB	23:00	46.96
3/25/2014	DA LMP - Price	INDIANA.HUB	24:00:00	37.05
3/26/2014	DA LMP - Price	INDIANA.HUB	1:00	35.24
3/26/2014	DA LMP - Price	INDIANA.HUB	2:00	34.33
3/26/2014	DA LMP - Price	INDIANA.HUB	3:00	33.87
3/26/2014	DA LMP - Price	INDIANA.HUB	4:00	35.61
3/26/2014	DA LMP - Price	INDIANA.HUB	5:00	40.9
3/26/2014	DA LMP - Price	INDIANA.HUB	6:00	54.75
3/26/2014	DA LMP - Price	INDIANA.HUB	7:00	84.04
3/26/2014	DA LMP - Price	INDIANA.HUB	8:00	75.87

Trade Date	Price Type	Transaction Point	Per End	Price
3/26/2014	DA LMP - Price	INDIANA.HUB	9:00	60.22
3/26/2014	DA LMP - Price	INDIANA.HUB	10:00	58.85
3/26/2014	DA LMP - Price	INDIANA.HUB	11:00	48.96
3/26/2014	DA LMP - Price	INDIANA.HUB	12:00	47.16
3/26/2014	DA LMP - Price	INDIANA.HUB	13:00	42.41
3/26/2014	DA LMP - Price	INDIANA.HUB	14:00	39.98
3/26/2014	DA LMP - Price	INDIANA.HUB	15:00	37.51
3/26/2014	DA LMP - Price	INDIANA.HUB	16:00	36.1
3/26/2014	DA LMP - Price	INDIANA.HUB	17:00	36.01
3/26/2014	DA LMP - Price	INDIANA.HUB	18:00	37.24
3/26/2014	DA LMP - Price	INDIANA.HUB	19:00	42.11
3/26/2014	DA LMP - Price	INDIANA.HUB	20:00	65.22
3/26/2014	DA LMP - Price	INDIANA.HUB	21:00	52.58
3/26/2014	DA LMP - Price	INDIANA.HUB	22:00	41.72
3/26/2014	DA LMP - Price	INDIANA.HUB	23:00	34.55
3/26/2014	DA LMP - Price	INDIANA.HUB	24:00:00	34.46
3/27/2014	DA LMP - Price	INDIANA.HUB	1:00	34.82
3/27/2014	DA LMP - Price	INDIANA.HUB	2:00	34.57
3/27/2014	DA LMP - Price	INDIANA.HUB	3:00	33.5
3/27/2014	DA LMP - Price	INDIANA.HUB	4:00	34.42
3/27/2014	DA LMP - Price	INDIANA.HUB	5:00	37.49
3/27/2014	DA LMP - Price	INDIANA.HUB	6:00	50.38
3/27/2014	DA LMP - Price	INDIANA.HUB	7:00	59.71
3/27/2014	DA LMP - Price	INDIANA.HUB	8:00	54.82
3/27/2014	DA LMP - Price	INDIANA.HUB	9:00	50.25
3/27/2014	DA LMP - Price	INDIANA.HUB	10:00	47.56
3/27/2014	DA LMP - Price	INDIANA.HUB	11:00	45.27
3/27/2014	DA LMP - Price	INDIANA.HUB	12:00	42.78
3/27/2014	DA LMP - Price	INDIANA.HUB	13:00	39.28
3/27/2014	DA LMP - Price	INDIANA.HUB	14:00	38.05
3/27/2014	DA LMP - Price	INDIANA.HUB	15:00	36.29
3/27/2014	DA LMP - Price	INDIANA.HUB	16:00	35.16
3/27/2014	DA LMP - Price	INDIANA.HUB	17:00	35.45
3/27/2014	DA LMP - Price	INDIANA.HUB	18:00	35.76
3/27/2014	DA LMP - Price	INDIANA.HUB	19:00	39.26
3/27/2014	DA LMP - Price	INDIANA.HUB	20:00	53.13
3/27/2014	DA LMP - Price	INDIANA.HUB	21:00	45.42
3/27/2014	DA LMP - Price	INDIANA.HUB	22:00	39.06
3/27/2014	DA LMP - Price	INDIANA.HUB	23:00	35.16
3/27/2014	DA LMP - Price	INDIANA.HUB	24:00:00	32.48
3/28/2014	DA LMP - Price	INDIANA.HUB	1:00	28.86
3/28/2014	DA LMP - Price	INDIANA.HUB	2:00	27.5
3/28/2014	DA LMP - Price	INDIANA.HUB	3:00	26.97
3/28/2014	DA LMP - Price	INDIANA.HUB	4:00	27.17
3/28/2014	DA LMP - Price	INDIANA.HUB	5:00	29.1
3/28/2014	DA LMP - Price	INDIANA.HUB	6:00	37.88

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Trade Date	Price Type	Transaction Poin	Per End	Price
3/28/2014	DA LMP - Price	INDIANA.HUB	7:00	45.17
3/28/2014	DA LMP - Price	INDIANA.HUB	8:00	42.32
3/28/2014	DA LMP - Price	INDIANA.HUB	9:00	40.1
3/28/2014	DA LMP - Price	INDIANA.HUB	10:00	41.74
3/28/2014	DA LMP - Price	INDIANA.HUB	11:00	42.01
3/28/2014	DA LMP - Price	INDIANA.HUB	12:00	40.88
3/28/2014	DA LMP - Price	INDIANA.HUB	13:00	38.79
3/28/2014	DA LMP - Price	INDIANA.HUB	14:00	37.84
3/28/2014	DA LMP - Price	INDIANA.HUB	15:00	36.37
3/28/2014	DA LMP - Price	INDIANA.HUB	16:00	35.14
3/28/2014	DA LMP - Price	INDIANA.HUB	17:00	34.62
3/28/2014	DA LMP - Price	INDIANA.HUB	18:00	34.2
3/28/2014	DA LMP - Price	INDIANA.HUB	19:00	36.35
3/28/2014	DA LMP - Price	INDIANA.HUB	20:00	45.03
3/28/2014	DA LMP - Price	INDIANA.HUB	21:00	41.82
3/28/2014	DA LMP - Price	INDIANA.HUB	22:00	36.59
3/28/2014	DA LMP - Price	INDIANA.HUB	23:00	34.07
3/28/2014	DA LMP - Price	INDIANA.HUB	24:00:00	32.17
3/29/2014	DA LMP - Price	INDIANA.HUB	1:00	29.55
3/29/2014	DA LMP - Price	INDIANA.HUB	2:00	27.65
3/29/2014	DA LMP - Price	INDIANA.HUB	3:00	27.27
3/29/2014	DA LMP - Price	INDIANA.HUB	4:00	27.24
3/29/2014	DA LMP - Price	INDIANA.HUB	5:00	27.85
3/29/2014	DA LMP - Price	INDIANA.HUB	6:00	30.04
3/29/2014	DA LMP - Price	INDIANA.HUB	7:00	33.62
3/29/2014	DA LMP - Price	INDIANA.HUB	8:00	37.11
3/29/2014	DA LMP - Price	INDIANA.HUB	9:00	41.84
3/29/2014	DA LMP - Price	INDIANA.HUB	10:00	44.65
3/29/2014	DA LMP - Price	INDIANA.HUB	11:00	43.32
3/29/2014	DA LMP - Price	INDIANA.HUB	12:00	38.77
3/29/2014	DA LMP - Price	INDIANA.HUB	13:00	35.71
3/29/2014	DA LMP - Price	INDIANA.HUB	14:00	33.8
3/29/2014	DA LMP - Price	INDIANA.HUB	15:00	33.43
3/29/2014	DA LMP - Price	INDIANA.HUB	16:00	32.55
3/29/2014	DA LMP - Price	INDIANA.HUB	17:00	32.55
3/29/2014	DA LMP - Price	INDIANA.HUB	18:00	32.83
3/29/2014	DA LMP - Price	INDIANA.HUB	19:00	35.85
3/29/2014	DA LMP - Price	INDIANA.HUB	20:00	46.26
3/29/2014	DA LMP - Price	INDIANA.HUB	21:00	40.37
3/29/2014	DA LMP - Price	INDIANA.HUB	22:00	34.26
3/29/2014	DA LMP - Price	INDIANA.HUB	23:00	31.93
3/29/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.18
3/30/2014	DA LMP - Price	INDIANA.HUB	1:00	30.91
3/30/2014	DA LMP - Price	INDIANA.HUB	2:00	30.29
3/30/2014	DA LMP - Price	INDIANA.HUB	3:00	30.2
3/30/2014	DA LMP - Price	INDIANA.HUB	4:00	30.39

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Trade Date	Price Type	Transaction Point	Per End	Price
3/30/2014	DA LMP - Price	INDIANA.HUB	5:00	30.79
3/30/2014	DA LMP - Price	INDIANA.HUB	6:00	31.64
3/30/2014	DA LMP - Price	INDIANA.HUB	7:00	35.14
3/30/2014	DA LMP - Price	INDIANA.HUB	8:00	40.34
3/30/2014	DA LMP - Price	INDIANA.HUB	9:00	44.92
3/30/2014	DA LMP - Price	INDIANA.HUB	10:00	45.19
3/30/2014	DA LMP - Price	INDIANA.HUB	11:00	44.05
3/30/2014	DA LMP - Price	INDIANA.HUB	12:00	38.12
3/30/2014	DA LMP - Price	INDIANA.HUB	13:00	33.7
3/30/2014	DA LMP - Price	INDIANA.HUB	14:00	32.23
3/30/2014	DA LMP - Price	INDIANA.HUB	15:00	31.86
3/30/2014	DA LMP - Price	INDIANA.HUB	16:00	31.44
3/30/2014	DA LMP - Price	INDIANA.HUB	17:00	31.72
3/30/2014	DA LMP - Price	INDIANA.HUB	18:00	32.77
3/30/2014	DA LMP - Price	INDIANA.HUB	19:00	36.28
3/30/2014	DA LMP - Price	INDIANA.HUB	20:00	47.52
3/30/2014	DA LMP - Price	INDIANA.HUB	21:00	44.85
3/30/2014	DA LMP - Price	INDIANA.HUB	22:00	34.87
3/30/2014	DA LMP - Price	INDIANA.HUB	23:00	30.05
3/30/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.92
3/31/2014	DA LMP - Price	INDIANA.HUB	1:00	29.27
3/31/2014	DA LMP - Price	INDIANA.HUB	2:00	27.51
3/31/2014	DA LMP - Price	INDIANA.HUB	3:00	27.85
3/31/2014	DA LMP - Price	INDIANA.HUB	4:00	29.17
3/31/2014	DA LMP - Price	INDIANA.HUB	5:00	33.76
3/31/2014	DA LMP - Price	INDIANA.HUB	6:00	52.47
3/31/2014	DA LMP - Price	INDIANA.HUB	7:00	59
3/31/2014	DA LMP - Price	INDIANA.HUB	8:00	49.85
3/31/2014	DA LMP - Price	INDIANA.HUB	9:00	50.21
3/31/2014	DA LMP - Price	INDIANA.HUB	10:00	49.26
3/31/2014	DA LMP - Price	INDIANA.HUB	11:00	47.94
3/31/2014	DA LMP - Price	INDIANA.HUB	12:00	45.61
3/31/2014	DA LMP - Price	INDIANA.HUB	13:00	40.34
3/31/2014	DA LMP - Price	INDIANA.HUB	14:00	38.43
3/31/2014	DA LMP - Price	INDIANA.HUB	15:00	35.88
3/31/2014	DA LMP - Price	INDIANA.HUB	16:00	34.35
3/31/2014	DA LMP - Price	INDIANA.HUB	17:00	33.52
3/31/2014	DA LMP - Price	INDIANA.HUB	18:00	33
3/31/2014	DA LMP - Price	INDIANA.HUB	19:00	36.3
3/31/2014	DA LMP - Price	INDIANA.HUB	20:00	47.02
3/31/2014	DA LMP - Price	INDIANA.HUB	21:00	40.79
3/31/2014	DA LMP - Price	INDIANA.HUB	22:00	32.35
3/31/2014	DA LMP - Price	INDIANA.HUB	23:00	28.4
3/31/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.68
4/1/2014	DA LMP - Price	INDIANA.HUB	1:00	25.27
4/1/2014	DA LMP - Price	INDIANA.HUB	2:00	21.03

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Trade Date	Price Type	Transaction Point	Per End	Price
4/1/2014	DA LMP - Price	INDIANA.HUB	3:00	21.11
4/1/2014	DA LMP - Price	INDIANA.HUB	4:00	23.09
4/1/2014	DA LMP - Price	INDIANA.HUB	5:00	29.43
4/1/2014	DA LMP - Price	INDIANA.HUB	6:00	46.32
4/1/2014	DA LMP - Price	INDIANA.HUB	7:00	50.93
4/1/2014	DA LMP - Price	INDIANA.HUB	8:00	42.86
4/1/2014	DA LMP - Price	INDIANA.HUB	9:00	39.9
4/1/2014	DA LMP - Price	INDIANA.HUB	10:00	38.29
4/1/2014	DA LMP - Price	INDIANA.HUB	11:00	37.1
4/1/2014	DA LMP - Price	INDIANA.HUB	12:00	35.38
4/1/2014	DA LMP - Price	INDIANA.HUB	13:00	35.39
4/1/2014	DA LMP - Price	INDIANA.HUB	14:00	35.18
4/1/2014	DA LMP - Price	INDIANA.HUB	15:00	34.76
4/1/2014	DA LMP - Price	INDIANA.HUB	16:00	33.73
4/1/2014	DA LMP - Price	INDIANA.HUB	17:00	34.23
4/1/2014	DA LMP - Price	INDIANA.HUB	18:00	35.87
4/1/2014	DA LMP - Price	INDIANA.HUB	19:00	38.69
4/1/2014	DA LMP - Price	INDIANA.HUB	20:00	52.51
4/1/2014	DA LMP - Price	INDIANA.HUB	21:00	46.59
4/1/2014	DA LMP - Price	INDIANA.HUB	22:00	37.91
4/1/2014	DA LMP - Price	INDIANA.HUB	23:00	33.93
4/1/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.64
4/2/2014	DA LMP - Price	INDIANA.HUB	1:00	28.33
4/2/2014	DA LMP - Price	INDIANA.HUB	2:00	26.6
4/2/2014	DA LMP - Price	INDIANA.HUB	3:00	26.97
4/2/2014	DA LMP - Price	INDIANA.HUB	4:00	27.73
4/2/2014	DA LMP - Price	INDIANA.HUB	5:00	30.12
4/2/2014	DA LMP - Price	INDIANA.HUB	6:00	45.88
4/2/2014	DA LMP - Price	INDIANA.HUB	7:00	52.3
4/2/2014	DA LMP - Price	INDIANA.HUB	8:00	47.99
4/2/2014	DA LMP - Price	INDIANA.HUB	9:00	46.58
4/2/2014	DA LMP - Price	INDIANA.HUB	10:00	46.55
4/2/2014	DA LMP - Price	INDIANA.HUB	11:00	45.79
4/2/2014	DA LMP - Price	INDIANA.HUB	12:00	41.86
4/2/2014	DA LMP - Price	INDIANA.HUB	13:00	39.77
4/2/2014	DA LMP - Price	INDIANA.HUB	14:00	39.1
4/2/2014	DA LMP - Price	INDIANA.HUB	15:00	38.6
4/2/2014	DA LMP - Price	INDIANA.HUB	16:00	39.04
4/2/2014	DA LMP - Price	INDIANA.HUB	17:00	37.28
4/2/2014	DA LMP - Price	INDIANA.HUB	18:00	39.01
4/2/2014	DA LMP - Price	INDIANA.HUB	19:00	45.52
4/2/2014	DA LMP - Price	INDIANA.HUB	20:00	58.98
4/2/2014	DA LMP - Price	INDIANA.HUB	21:00	46.45
4/2/2014	DA LMP - Price	INDIANA.HUB	22:00	35.45
4/2/2014	DA LMP - Price	INDIANA.HUB	23:00	33.4
4/2/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.74

Trade Date	Price Type	Transaction Point	Per End	Price
4/3/2014	DA LMP - Price	INDIANA.HUB	1:00	27.54
4/3/2014	DA LMP - Price	INDIANA.HUB	2:00	26.3
4/3/2014	DA LMP - Price	INDIANA.HUB	3:00	26.01
4/3/2014	DA LMP - Price	INDIANA.HUB	4:00	26.27
4/3/2014	DA LMP - Price	INDIANA.HUB	5:00	27.92
4/3/2014	DA LMP - Price	INDIANA.HUB	6:00	43.21
4/3/2014	DA LMP - Price	INDIANA.HUB	7:00	48.37
4/3/2014	DA LMP - Price	INDIANA.HUB	8:00	46.18
4/3/2014	DA LMP - Price	INDIANA.HUB	9:00	46.39
4/3/2014	DA LMP - Price	INDIANA.HUB	10:00	46.75
4/3/2014	DA LMP - Price	INDIANA.HUB	11:00	45.9
4/3/2014	DA LMP - Price	INDIANA.HUB	12:00	45.4
4/3/2014	DA LMP - Price	INDIANA.HUB	13:00	44.71
4/3/2014	DA LMP - Price	INDIANA.HUB	14:00	44.11
4/3/2014	DA LMP - Price	INDIANA.HUB	15:00	40.79
4/3/2014	DA LMP - Price	INDIANA.HUB	16:00	41.31
4/3/2014	DA LMP - Price	INDIANA.HUB	17:00	40.87
4/3/2014	DA LMP - Price	INDIANA.HUB	18:00	38.91
4/3/2014	DA LMP - Price	INDIANA.HUB	19:00	41.39
4/3/2014	DA LMP - Price	INDIANA.HUB	20:00	53.69
4/3/2014	DA LMP - Price	INDIANA.HUB	21:00	47.24
4/3/2014	DA LMP - Price	INDIANA.HUB	22:00	34.79
4/3/2014	DA LMP - Price	INDIANA.HUB	23:00	31.72
4/3/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.89
4/4/2014	DA LMP - Price	INDIANA.HUB	1:00	27.49
4/4/2014	DA LMP - Price	INDIANA.HUB	2:00	25.2
4/4/2014	DA LMP - Price	INDIANA.HUB	3:00	24.9
4/4/2014	DA LMP - Price	INDIANA.HUB	4:00	26.01
4/4/2014	DA LMP - Price	INDIANA.HUB	5:00	29.11
4/4/2014	DA LMP - Price	INDIANA.HUB	6:00	40.5
4/4/2014	DA LMP - Price	INDIANA.HUB	7:00	50.03
4/4/2014	DA LMP - Price	INDIANA.HUB	8:00	45.14
4/4/2014	DA LMP - Price	INDIANA.HUB	9:00	45.78
4/4/2014	DA LMP - Price	INDIANA.HUB	10:00	46.12
4/4/2014	DA LMP - Price	INDIANA.HUB	11:00	46.69
4/4/2014	DA LMP - Price	INDIANA.HUB	12:00	43.6
4/4/2014	DA LMP - Price	INDIANA.HUB	13:00	41.54
4/4/2014	DA LMP - Price	INDIANA.HUB	14:00	40.06
4/4/2014	DA LMP - Price	INDIANA.HUB	15:00	38.19
4/4/2014	DA LMP - Price	INDIANA.HUB	16:00	37.05
4/4/2014	DA LMP - Price	INDIANA.HUB	17:00	36.38
4/4/2014	DA LMP - Price	INDIANA.HUB	18:00	34.69
4/4/2014	DA LMP - Price	INDIANA.HUB	19:00	38.53
4/4/2014	DA LMP - Price	INDIANA.HUB	20:00	47.62
4/4/2014	DA LMP - Price	INDIANA.HUB	21:00	44.94
4/4/2014	DA LMP - Price	INDIANA.HUB	22:00	36.27

Trade Date	Price Type	Transaction Point	Per End	Price
4/4/2014	DA LMP - Price	INDIANA.HUB	23:00	34.71
4/4/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.73
4/5/2014	DA LMP - Price	INDIANA.HUB	1:00	30.94
4/5/2014	DA LMP - Price	INDIANA.HUB	2:00	30.25
4/5/2014	DA LMP - Price	INDIANA.HUB	3:00	29.5
4/5/2014	DA LMP - Price	INDIANA.HUB	4:00	29.7
4/5/2014	DA LMP - Price	INDIANA.HUB	5:00	30.34
4/5/2014	DA LMP - Price	INDIANA.HUB	6:00	32.4
4/5/2014	DA LMP - Price	INDIANA.HUB	7:00	39.73
4/5/2014	DA LMP - Price	INDIANA.HUB	8:00	44.22
4/5/2014	DA LMP - Price	INDIANA.HUB	9:00	48.23
4/5/2014	DA LMP - Price	INDIANA.HUB	10:00	49.52
4/5/2014	DA LMP - Price	INDIANA.HUB	11:00	48.67
4/5/2014	DA LMP - Price	INDIANA.HUB	12:00	40.01
4/5/2014	DA LMP - Price	INDIANA.HUB	13:00	36.45
4/5/2014	DA LMP - Price	INDIANA.HUB	14:00	33.87
4/5/2014	DA LMP - Price	INDIANA.HUB	15:00	31.75
4/5/2014	DA LMP - Price	INDIANA.HUB	16:00	31.41
4/5/2014	DA LMP - Price	INDIANA.HUB	17:00	31.58
4/5/2014	DA LMP - Price	INDIANA.HUB	18:00	32.07
4/5/2014	DA LMP - Price	INDIANA.HUB	19:00	34.38
4/5/2014	DA LMP - Price	INDIANA.HUB	20:00	49.69
4/5/2014	DA LMP - Price	INDIANA.HUB	21:00	42.32
4/5/2014	DA LMP - Price	INDIANA.HUB	22:00	34.98
4/5/2014	DA LMP - Price	INDIANA.HUB	23:00	31.27
4/5/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.31
4/6/2014	DA LMP - Price	INDIANA.HUB	1:00	29.09
4/6/2014	DA LMP - Price	INDIANA.HUB	2:00	27.74
4/6/2014	DA LMP - Price	INDIANA.HUB	3:00	27.44
4/6/2014	DA LMP - Price	INDIANA.HUB	4:00	27.57
4/6/2014	DA LMP - Price	INDIANA.HUB	5:00	27.66
4/6/2014	DA LMP - Price	INDIANA.HUB	6:00	27.94
4/6/2014	DA LMP - Price	INDIANA.HUB	7:00	30.91
4/6/2014	DA LMP - Price	INDIANA.HUB	8:00	34.23
4/6/2014	DA LMP - Price	INDIANA.HUB	9:00	37.51
4/6/2014	DA LMP - Price	INDIANA.HUB	10:00	36.49
4/6/2014	DA LMP - Price	INDIANA.HUB	11:00	35.14
4/6/2014	DA LMP - Price	INDIANA.HUB	12:00	33.34
4/6/2014	DA LMP - Price	INDIANA.HUB	13:00	31.86
4/6/2014	DA LMP - Price	INDIANA.HUB	14:00	30.98
4/6/2014	DA LMP - Price	INDIANA.HUB	15:00	30.71
4/6/2014	DA LMP - Price	INDIANA.HUB	16:00	30.73
4/6/2014	DA LMP - Price	INDIANA.HUB	17:00	31.58
4/6/2014	DA LMP - Price	INDIANA.HUB	18:00	33.05
4/6/2014	DA LMP - Price	INDIANA.HUB	19:00	36.64
4/6/2014	DA LMP - Price	INDIANA.HUB	20:00	49.37

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Trade Date	Price Type	Transaction Point	Per End	Price
4/6/2014	DA LMP - Price	INDIANA.HUB	21:00	46.2
4/6/2014	DA LMP - Price	INDIANA.HUB	22:00	36.18
4/6/2014	DA LMP - Price	INDIANA.HUB	23:00	29.33
4/6/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.88
4/7/2014	DA LMP - Price	INDIANA.HUB	1:00	27.77
4/7/2014	DA LMP - Price	INDIANA.HUB	2:00	27.46
4/7/2014	DA LMP - Price	INDIANA.HUB	3:00	27.28
4/7/2014	DA LMP - Price	INDIANA.HUB	4:00	28.03
4/7/2014	DA LMP - Price	INDIANA.HUB	5:00	29.98
4/7/2014	DA LMP - Price	INDIANA.HUB	6:00	43.81
4/7/2014	DA LMP - Price	INDIANA.HUB	7:00	48.36
4/7/2014	DA LMP - Price	INDIANA.HUB	8:00	47.55
4/7/2014	DA LMP - Price	INDIANA.HUB	9:00	46.76
4/7/2014	DA LMP - Price	INDIANA.HUB	10:00	46.74
4/7/2014	DA LMP - Price	INDIANA.HUB	11:00	47.03
4/7/2014	DA LMP - Price	INDIANA.HUB	12:00	46.07
4/7/2014	DA LMP - Price	INDIANA.HUB	13:00	42.45
4/7/2014	DA LMP - Price	INDIANA.HUB	14:00	41.17
4/7/2014	DA LMP - Price	INDIANA.HUB	15:00	37.37
4/7/2014	DA LMP - Price	INDIANA.HUB	16:00	36.7
4/7/2014	DA LMP - Price	INDIANA.HUB	17:00	35.22
4/7/2014	DA LMP - Price	INDIANA.HUB	18:00	35.04
4/7/2014	DA LMP - Price	INDIANA.HUB	19:00	37.4
4/7/2014	DA LMP - Price	INDIANA.HUB	20:00	49.4
4/7/2014	DA LMP - Price	INDIANA.HUB	21:00	43.33
4/7/2014	DA LMP - Price	INDIANA.HUB	22:00	32.54
4/7/2014	DA LMP - Price	INDIANA.HUB	23:00	29.45
4/7/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.56
4/8/2014	DA LMP - Price	INDIANA.HUB	1:00	28.43
4/8/2014	DA LMP - Price	INDIANA.HUB	2:00	27.33
4/8/2014	DA LMP - Price	INDIANA.HUB	3:00	27.33
4/8/2014	DA LMP - Price	INDIANA.HUB	4:00	27.64
4/8/2014	DA LMP - Price	INDIANA.HUB	5:00	29.93
4/8/2014	DA LMP - Price	INDIANA.HUB	6:00	44.62
4/8/2014	DA LMP - Price	INDIANA.HUB	7:00	50.08
4/8/2014	DA LMP - Price	INDIANA.HUB	8:00	48.77
4/8/2014	DA LMP - Price	INDIANA.HUB	9:00	48.45
4/8/2014	DA LMP - Price	INDIANA.HUB	10:00	46.71
4/8/2014	DA LMP - Price	INDIANA.HUB	11:00	45.33
4/8/2014	DA LMP - Price	INDIANA.HUB	12:00	43.39
4/8/2014	DA LMP - Price	INDIANA.HUB	13:00	43.66
4/8/2014	DA LMP - Price	INDIANA.HUB	14:00	43.2
4/8/2014	DA LMP - Price	INDIANA.HUB	15:00	40.54
4/8/2014	DA LMP - Price	INDIANA.HUB	16:00	39.06
4/8/2014	DA LMP - Price	INDIANA.HUB	17:00	37.41
4/8/2014	DA LMP - Price	INDIANA.HUB	18:00	36.88

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Trade Date	Price Type	Transaction Point	Per End	Price
4/8/2014	DA LMP - Price	INDIANA.HUB	19:00	40.13
4/8/2014	DA LMP - Price	INDIANA.HUB	20:00	55.93
4/8/2014	DA LMP - Price	INDIANA.HUB	21:00	50.28
4/8/2014	DA LMP - Price	INDIANA.HUB	22:00	39.51
4/8/2014	DA LMP - Price	INDIANA.HUB	23:00	33.84
4/8/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.92
4/9/2014	DA LMP - Price	INDIANA.HUB	1:00	27.99
4/9/2014	DA LMP - Price	INDIANA.HUB	2:00	26.84
4/9/2014	DA LMP - Price	INDIANA.HUB	3:00	26.72
4/9/2014	DA LMP - Price	INDIANA.HUB	4:00	27.35
4/9/2014	DA LMP - Price	INDIANA.HUB	5:00	30.77
4/9/2014	DA LMP - Price	INDIANA.HUB	6:00	50.76
4/9/2014	DA LMP - Price	INDIANA.HUB	7:00	54.67
4/9/2014	DA LMP - Price	INDIANA.HUB	8:00	50
4/9/2014	DA LMP - Price	INDIANA.HUB	9:00	48.75
4/9/2014	DA LMP - Price	INDIANA.HUB	10:00	46.41
4/9/2014	DA LMP - Price	INDIANA.HUB	11:00	45.36
4/9/2014	DA LMP - Price	INDIANA.HUB	12:00	41.52
4/9/2014	DA LMP - Price	INDIANA.HUB	13:00	39.49
4/9/2014	DA LMP - Price	INDIANA.HUB	14:00	37.36
4/9/2014	DA LMP - Price	INDIANA.HUB	15:00	34.76
4/9/2014	DA LMP - Price	INDIANA.HUB	16:00	34.67
4/9/2014	DA LMP - Price	INDIANA.HUB	17:00	36.87
4/9/2014	DA LMP - Price	INDIANA.HUB	18:00	35.22
4/9/2014	DA LMP - Price	INDIANA.HUB	19:00	38.89
4/9/2014	DA LMP - Price	INDIANA.HUB	20:00	51.6
4/9/2014	DA LMP - Price	INDIANA.HUB	21:00	48.52
4/9/2014	DA LMP - Price	INDIANA.HUB	22:00	33.54
4/9/2014	DA LMP - Price	INDIANA.HUB	23:00	28.41
4/9/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.55
4/10/2014	DA LMP - Price	INDIANA.HUB	1:00	26
4/10/2014	DA LMP - Price	INDIANA.HUB	2:00	25.59
4/10/2014	DA LMP - Price	INDIANA.HUB	3:00	25.74
4/10/2014	DA LMP - Price	INDIANA.HUB	4:00	26.09
4/10/2014	DA LMP - Price	INDIANA.HUB	5:00	30.08
4/10/2014	DA LMP - Price	INDIANA.HUB	6:00	50.22
4/10/2014	DA LMP - Price	INDIANA.HUB	7:00	48.85
4/10/2014	DA LMP - Price	INDIANA.HUB	8:00	44.04
4/10/2014	DA LMP - Price	INDIANA.HUB	9:00	43.72
4/10/2014	DA LMP - Price	INDIANA.HUB	10:00	41.96
4/10/2014	DA LMP - Price	INDIANA.HUB	11:00	41.44
4/10/2014	DA LMP - Price	INDIANA.HUB	12:00	38.12
4/10/2014	DA LMP - Price	INDIANA.HUB	13:00	36.35
4/10/2014	DA LMP - Price	INDIANA.HUB	14:00	37.88
4/10/2014	DA LMP - Price	INDIANA.HUB	15:00	35.09
4/10/2014	DA LMP - Price	INDIANA.HUB	16:00	36.45

Trade Date	Price Type	Transaction Point	Per End	Price
4/10/2014	DA LMP - Price	INDIANA.HUB	17:00	36.82
4/10/2014	DA LMP - Price	INDIANA.HUB	18:00	36.8
4/10/2014	DA LMP - Price	INDIANA.HUB	19:00	40.32
4/10/2014	DA LMP - Price	INDIANA.HUB	20:00	59.49
4/10/2014	DA LMP - Price	INDIANA.HUB	21:00	52.23
4/10/2014	DA LMP - Price	INDIANA.HUB	22:00	41.27
4/10/2014	DA LMP - Price	INDIANA.HUB	23:00	35.02
4/10/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.88
4/11/2014	DA LMP - Price	INDIANA.HUB	1:00	29.04
4/11/2014	DA LMP - Price	INDIANA.HUB	2:00	28
4/11/2014	DA LMP - Price	INDIANA.HUB	3:00	26.98
4/11/2014	DA LMP - Price	INDIANA.HUB	4:00	28.63
4/11/2014	DA LMP - Price	INDIANA.HUB	5:00	30.85
4/11/2014	DA LMP - Price	INDIANA.HUB	6:00	48.61
4/11/2014	DA LMP - Price	INDIANA.HUB	7:00	47.04
4/11/2014	DA LMP - Price	INDIANA.HUB	8:00	45.8
4/11/2014	DA LMP - Price	INDIANA.HUB	9:00	46.99
4/11/2014	DA LMP - Price	INDIANA.HUB	10:00	46.79
4/11/2014	DA LMP - Price	INDIANA.HUB	11:00	46.32
4/11/2014	DA LMP - Price	INDIANA.HUB	12:00	44.97
4/11/2014	DA LMP - Price	INDIANA.HUB	13:00	43.96
4/11/2014	DA LMP - Price	INDIANA.HUB	14:00	44.49
4/11/2014	DA LMP - Price	INDIANA.HUB	15:00	41.48
4/11/2014	DA LMP - Price	INDIANA.HUB	16:00	39.71
4/11/2014	DA LMP - Price	INDIANA.HUB	17:00	37.54
4/11/2014	DA LMP - Price	INDIANA.HUB	18:00	36.68
4/11/2014	DA LMP - Price	INDIANA.HUB	19:00	38.81
4/11/2014	DA LMP - Price	INDIANA.HUB	20:00	46.46
4/11/2014	DA LMP - Price	INDIANA.HUB	21:00	45.15
4/11/2014	DA LMP - Price	INDIANA.HUB	22:00	39.54
4/11/2014	DA LMP - Price	INDIANA.HUB	23:00	37.41
4/11/2014	DA LMP - Price	INDIANA.HUB	24:00:00	34.4
4/12/2014	DA LMP - Price	INDIANA.HUB	1:00	29.32
4/12/2014	DA LMP - Price	INDIANA.HUB	2:00	25.71
4/12/2014	DA LMP - Price	INDIANA.HUB	3:00	26.33
4/12/2014	DA LMP - Price	INDIANA.HUB	4:00	26.58
4/12/2014	DA LMP - Price	INDIANA.HUB	5:00	27.21
4/12/2014	DA LMP - Price	INDIANA.HUB	6:00	28.23
4/12/2014	DA LMP - Price	INDIANA.HUB	7:00	28.64
4/12/2014	DA LMP - Price	INDIANA.HUB	8:00	33.17
4/12/2014	DA LMP - Price	INDIANA.HUB	9:00	37.32
4/12/2014	DA LMP - Price	INDIANA.HUB	10:00	36.61
4/12/2014	DA LMP - Price	INDIANA.HUB	11:00	36.77
4/12/2014	DA LMP - Price	INDIANA.HUB	12:00	35.94
4/12/2014	DA LMP - Price	INDIANA.HUB	13:00	33.09
4/12/2014	DA LMP - Price	INDIANA.HUB	14:00	31.86

Trade Date	Price Type	Transaction Point	Per End	Price
4/12/2014	DA LMP - Price	INDIANA.HUB	15:00	29.58
4/12/2014	DA LMP - Price	INDIANA.HUB	16:00	29.63
4/12/2014	DA LMP - Price	INDIANA.HUB	17:00	30.14
4/12/2014	DA LMP - Price	INDIANA.HUB	18:00	31.01
4/12/2014	DA LMP - Price	INDIANA.HUB	19:00	31.08
4/12/2014	DA LMP - Price	INDIANA.HUB	20:00	36.72
4/12/2014	DA LMP - Price	INDIANA.HUB	21:00	35.28
4/12/2014	DA LMP - Price	INDIANA.HUB	22:00	28.07
4/12/2014	DA LMP - Price	INDIANA.HUB	23:00	25.16
4/12/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.85
4/13/2014	DA LMP - Price	INDIANA.HUB	1:00	25.46
4/13/2014	DA LMP - Price	INDIANA.HUB	2:00	25
4/13/2014	DA LMP - Price	INDIANA.HUB	3:00	25.04
4/13/2014	DA LMP - Price	INDIANA.HUB	4:00	25.39
4/13/2014	DA LMP - Price	INDIANA.HUB	5:00	25.77
4/13/2014	DA LMP - Price	INDIANA.HUB	6:00	26.59
4/13/2014	DA LMP - Price	INDIANA.HUB	7:00	26.12
4/13/2014	DA LMP - Price	INDIANA.HUB	8:00	28.24
4/13/2014	DA LMP - Price	INDIANA.HUB	9:00	29.85
4/13/2014	DA LMP - Price	INDIANA.HUB	10:00	31.85
4/13/2014	DA LMP - Price	INDIANA.HUB	11:00	33.72
4/13/2014	DA LMP - Price	INDIANA.HUB	12:00	34.85
4/13/2014	DA LMP - Price	INDIANA.HUB	13:00	34.92
4/13/2014	DA LMP - Price	INDIANA.HUB	14:00	34.1
4/13/2014	DA LMP - Price	INDIANA.HUB	15:00	34.76
4/13/2014	DA LMP - Price	INDIANA.HUB	16:00	36.47
4/13/2014	DA LMP - Price	INDIANA.HUB	17:00	37.66
4/13/2014	DA LMP - Price	INDIANA.HUB	18:00	37.71
4/13/2014	DA LMP - Price	INDIANA.HUB	19:00	40.55
4/13/2014	DA LMP - Price	INDIANA.HUB	20:00	45.44
4/13/2014	DA LMP - Price	INDIANA.HUB	21:00	40.47
4/13/2014	DA LMP - Price	INDIANA.HUB	22:00	32.66
4/13/2014	DA LMP - Price	INDIANA.HUB	23:00	29.43
4/13/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.83
4/14/2014	DA LMP - Price	INDIANA.HUB	1:00	27.5
4/14/2014	DA LMP - Price	INDIANA.HUB	2:00	26.24
4/14/2014	DA LMP - Price	INDIANA.HUB	3:00	25.96
4/14/2014	DA LMP - Price	INDIANA.HUB	4:00	26.66
4/14/2014	DA LMP - Price	INDIANA.HUB	5:00	28.98
4/14/2014	DA LMP - Price	INDIANA.HUB	6:00	45.38
4/14/2014	DA LMP - Price	INDIANA.HUB	7:00	44.23
4/14/2014	DA LMP - Price	INDIANA.HUB	8:00	42
4/14/2014	DA LMP - Price	INDIANA.HUB	9:00	44.41
4/14/2014	DA LMP - Price	INDIANA.HUB	10:00	45.52
4/14/2014	DA LMP - Price	INDIANA.HUB	11:00	46.6
4/14/2014	DA LMP - Price	INDIANA.HUB	12:00	46.24

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Trade Date	Price Type	Transaction Point	Per End	Price
4/14/2014	DA LMP - Price	INDIANA.HUB	13:00	44.01
4/14/2014	DA LMP - Price	INDIANA.HUB	14:00	41.86
4/14/2014	DA LMP - Price	INDIANA.HUB	15:00	38.42
4/14/2014	DA LMP - Price	INDIANA.HUB	16:00	38.16
4/14/2014	DA LMP - Price	INDIANA.HUB	17:00	38.85
4/14/2014	DA LMP - Price	INDIANA.HUB	18:00	38.39
4/14/2014	DA LMP - Price	INDIANA.HUB	19:00	40.99
4/14/2014	DA LMP - Price	INDIANA.HUB	20:00	56.06
4/14/2014	DA LMP - Price	INDIANA.HUB	21:00	50.82
4/14/2014	DA LMP - Price	INDIANA.HUB	22:00	42.17
4/14/2014	DA LMP - Price	INDIANA.HUB	23:00	37.22
4/14/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.83
4/15/2014	DA LMP - Price	INDIANA.HUB	1:00	31.53
4/15/2014	DA LMP - Price	INDIANA.HUB	2:00	29.67
4/15/2014	DA LMP - Price	INDIANA.HUB	3:00	29.81
4/15/2014	DA LMP - Price	INDIANA.HUB	4:00	30.2
4/15/2014	DA LMP - Price	INDIANA.HUB	5:00	34.11
4/15/2014	DA LMP - Price	INDIANA.HUB	6:00	57.46
4/15/2014	DA LMP - Price	INDIANA.HUB	7:00	67.83
4/15/2014	DA LMP - Price	INDIANA.HUB	8:00	56.47
4/15/2014	DA LMP - Price	INDIANA.HUB	9:00	55.09
4/15/2014	DA LMP - Price	INDIANA.HUB	10:00	51.69
4/15/2014	DA LMP - Price	INDIANA.HUB	11:00	49.08
4/15/2014	DA LMP - Price	INDIANA.HUB	12:00	44.64
4/15/2014	DA LMP - Price	INDIANA.HUB	13:00	42.36
4/15/2014	DA LMP - Price	INDIANA.HUB	14:00	38.79
4/15/2014	DA LMP - Price	INDIANA.HUB	15:00	37.01
4/15/2014	DA LMP - Price	INDIANA.HUB	16:00	35.02
4/15/2014	DA LMP - Price	INDIANA.HUB	17:00	34.77
4/15/2014	DA LMP - Price	INDIANA.HUB	18:00	35.08
4/15/2014	DA LMP - Price	INDIANA.HUB	19:00	38.46
4/15/2014	DA LMP - Price	INDIANA.HUB	20:00	55.02
4/15/2014	DA LMP - Price	INDIANA.HUB	21:00	47.92
4/15/2014	DA LMP - Price	INDIANA.HUB	22:00	38
4/15/2014	DA LMP - Price	INDIANA.HUB	23:00	32.96
4/15/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.82
4/16/2014	DA LMP - Price	INDIANA.HUB	1:00	37.48
4/16/2014	DA LMP - Price	INDIANA.HUB	2:00	35.79
4/16/2014	DA LMP - Price	INDIANA.HUB	3:00	35.07
4/16/2014	DA LMP - Price	INDIANA.HUB	4:00	35.64
4/16/2014	DA LMP - Price	INDIANA.HUB	5:00	40.95
4/16/2014	DA LMP - Price	INDIANA.HUB	6:00	67.48
4/16/2014	DA LMP - Price	INDIANA.HUB	7:00	79.25
4/16/2014	DA LMP - Price	INDIANA.HUB	8:00	64.19
4/16/2014	DA LMP - Price	INDIANA.HUB	9:00	60.38
4/16/2014	DA LMP - Price	INDIANA.HUB	10:00	52.47

Trade Date	Price Type	Transaction Point	Per End	Price
4/16/2014	DA LMP - Price	INDIANA.HUB	11:00	49.08
4/16/2014	DA LMP - Price	INDIANA.HUB	12:00	43.82
4/16/2014	DA LMP - Price	INDIANA.HUB	13:00	36.61
4/16/2014	DA LMP - Price	INDIANA.HUB	14:00	33.87
4/16/2014	DA LMP - Price	INDIANA.HUB	15:00	32.67
4/16/2014	DA LMP - Price	INDIANA.HUB	16:00	31.87
4/16/2014	DA LMP - Price	INDIANA.HUB	17:00	32.25
4/16/2014	DA LMP - Price	INDIANA.HUB	18:00	33.43
4/16/2014	DA LMP - Price	INDIANA.HUB	19:00	35.45
4/16/2014	DA LMP - Price	INDIANA.HUB	20:00	51.94
4/16/2014	DA LMP - Price	INDIANA.HUB	21:00	51.63
4/16/2014	DA LMP - Price	INDIANA.HUB	22:00	37.06
4/16/2014	DA LMP - Price	INDIANA.HUB	23:00	31.94
4/16/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.4
4/17/2014	DA LMP - Price	INDIANA.HUB	1:00	29.31
4/17/2014	DA LMP - Price	INDIANA.HUB	2:00	28.1
4/17/2014	DA LMP - Price	INDIANA.HUB	3:00	28.33
4/17/2014	DA LMP - Price	INDIANA.HUB	4:00	28.74
4/17/2014	DA LMP - Price	INDIANA.HUB	5:00	30.47
4/17/2014	DA LMP - Price	INDIANA.HUB	6:00	52.69
4/17/2014	DA LMP - Price	INDIANA.HUB	7:00	54.23
4/17/2014	DA LMP - Price	INDIANA.HUB	8:00	47.85
4/17/2014	DA LMP - Price	INDIANA.HUB	9:00	47.02
4/17/2014	DA LMP - Price	INDIANA.HUB	10:00	47.45
4/17/2014	DA LMP - Price	INDIANA.HUB	11:00	46.77
4/17/2014	DA LMP - Price	INDIANA.HUB	12:00	42.97
4/17/2014	DA LMP - Price	INDIANA.HUB	13:00	41.19
4/17/2014	DA LMP - Price	INDIANA.HUB	14:00	41.5
4/17/2014	DA LMP - Price	INDIANA.HUB	15:00	39.69
4/17/2014	DA LMP - Price	INDIANA.HUB	16:00	40.05
4/17/2014	DA LMP - Price	INDIANA.HUB	17:00	37.63
4/17/2014	DA LMP - Price	INDIANA.HUB	18:00	38
4/17/2014	DA LMP - Price	INDIANA.HUB	19:00	38.65
4/17/2014	DA LMP - Price	INDIANA.HUB	20:00	50.71
4/17/2014	DA LMP - Price	INDIANA.HUB	21:00	48.88
4/17/2014	DA LMP - Price	INDIANA.HUB	22:00	39.84
4/17/2014	DA LMP - Price	INDIANA.HUB	23:00	33.67
4/17/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.57
4/18/2014	DA LMP - Price	INDIANA.HUB	1:00	27.5
4/18/2014	DA LMP - Price	INDIANA.HUB	2:00	26.8
4/18/2014	DA LMP - Price	INDIANA.HUB	3:00	26.46
4/18/2014	DA LMP - Price	INDIANA.HUB	4:00	26.68
4/18/2014	DA LMP - Price	INDIANA.HUB	5:00	28.2
4/18/2014	DA LMP - Price	INDIANA.HUB	6:00	34.24
4/18/2014	DA LMP - Price	INDIANA.HUB	7:00	38.57
4/18/2014	DA LMP - Price	INDIANA.HUB	8:00	42.11

Trade Date	Price Type	Transaction Point	Per End	Price
4/18/2014	DA LMP - Price	INDIANA.HUB	9:00	43.29
4/18/2014	DA LMP - Price	INDIANA.HUB	10:00	42.01
4/18/2014	DA LMP - Price	INDIANA.HUB	11:00	39.49
4/18/2014	DA LMP - Price	INDIANA.HUB	12:00	35.11
4/18/2014	DA LMP - Price	INDIANA.HUB	13:00	34.3
4/18/2014	DA LMP - Price	INDIANA.HUB	14:00	32.61
4/18/2014	DA LMP - Price	INDIANA.HUB	15:00	31.79
4/18/2014	DA LMP - Price	INDIANA.HUB	16:00	31.38
4/18/2014	DA LMP - Price	INDIANA.HUB	17:00	30.81
4/18/2014	DA LMP - Price	INDIANA.HUB	18:00	30.76
4/18/2014	DA LMP - Price	INDIANA.HUB	19:00	31.02
4/18/2014	DA LMP - Price	INDIANA.HUB	20:00	36.6
4/18/2014	DA LMP - Price	INDIANA.HUB	21:00	36.56
4/18/2014	DA LMP - Price	INDIANA.HUB	22:00	30.51
4/18/2014	DA LMP - Price	INDIANA.HUB	23:00	29.2
4/18/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.61
4/19/2014	DA LMP - Price	INDIANA.HUB	1:00	27.8
4/19/2014	DA LMP - Price	INDIANA.HUB	2:00	26.85
4/19/2014	DA LMP - Price	INDIANA.HUB	3:00	26.48
4/19/2014	DA LMP - Price	INDIANA.HUB	4:00	26.83
4/19/2014	DA LMP - Price	INDIANA.HUB	5:00	27.06
4/19/2014	DA LMP - Price	INDIANA.HUB	6:00	27.35
4/19/2014	DA LMP - Price	INDIANA.HUB	7:00	28.26
4/19/2014	DA LMP - Price	INDIANA.HUB	8:00	30.83
4/19/2014	DA LMP - Price	INDIANA.HUB	9:00	34.62
4/19/2014	DA LMP - Price	INDIANA.HUB	10:00	36.86
4/19/2014	DA LMP - Price	INDIANA.HUB	11:00	34.97
4/19/2014	DA LMP - Price	INDIANA.HUB	12:00	31.31
4/19/2014	DA LMP - Price	INDIANA.HUB	13:00	30
4/19/2014	DA LMP - Price	INDIANA.HUB	14:00	29.08
4/19/2014	DA LMP - Price	INDIANA.HUB	15:00	28.98
4/19/2014	DA LMP - Price	INDIANA.HUB	16:00	28.92
4/19/2014	DA LMP - Price	INDIANA.HUB	17:00	29.01
4/19/2014	DA LMP - Price	INDIANA.HUB	18:00	29.08
4/19/2014	DA LMP - Price	INDIANA.HUB	19:00	29.09
4/19/2014	DA LMP - Price	INDIANA.HUB	20:00	40.22
4/19/2014	DA LMP - Price	INDIANA.HUB	21:00	34.99
4/19/2014	DA LMP - Price	INDIANA.HUB	22:00	30.52
4/19/2014	DA LMP - Price	INDIANA.HUB	23:00	27.08
4/19/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.95
4/20/2014	DA LMP - Price	INDIANA.HUB	1:00	24.81
4/20/2014	DA LMP - Price	INDIANA.HUB	2:00	24.44
4/20/2014	DA LMP - Price	INDIANA.HUB	3:00	23.66
4/20/2014	DA LMP - Price	INDIANA.HUB	4:00	23.84
4/20/2014	DA LMP - Price	INDIANA.HUB	5:00	24.63
4/20/2014	DA LMP - Price	INDIANA.HUB	6:00	26.47

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Trade Date	Price Type	Transaction Point	Per End	Price
4/20/2014	DA LMP - Price	INDIANA.HUB	7:00	26.7
4/20/2014	DA LMP - Price	INDIANA.HUB	8:00	28.35
4/20/2014	DA LMP - Price	INDIANA.HUB	9:00	29.56
4/20/2014	DA LMP - Price	INDIANA.HUB	10:00	29.53
4/20/2014	DA LMP - Price	INDIANA.HUB	11:00	29.55
4/20/2014	DA LMP - Price	INDIANA.HUB	12:00	29.36
4/20/2014	DA LMP - Price	INDIANA.HUB	13:00	28.86
4/20/2014	DA LMP - Price	INDIANA.HUB	14:00	28.3
4/20/2014	DA LMP - Price	INDIANA.HUB	15:00	27.86
4/20/2014	DA LMP - Price	INDIANA.HUB	16:00	27.62
4/20/2014	DA LMP - Price	INDIANA.HUB	17:00	27.8
4/20/2014	DA LMP - Price	INDIANA.HUB	18:00	28.25
4/20/2014	DA LMP - Price	INDIANA.HUB	19:00	29.07
4/20/2014	DA LMP - Price	INDIANA.HUB	20:00	35.27
4/20/2014	DA LMP - Price	INDIANA.HUB	21:00	37.2
4/20/2014	DA LMP - Price	INDIANA.HUB	22:00	30.29
4/20/2014	DA LMP - Price	INDIANA.HUB	23:00	26.16
4/20/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.79
4/21/2014	DA LMP - Price	INDIANA.HUB	1:00	25.95
4/21/2014	DA LMP - Price	INDIANA.HUB	2:00	25.33
4/21/2014	DA LMP - Price	INDIANA.HUB	3:00	25.51
4/21/2014	DA LMP - Price	INDIANA.HUB	4:00	26.26
4/21/2014	DA LMP - Price	INDIANA.HUB	5:00	28.44
4/21/2014	DA LMP - Price	INDIANA.HUB	6:00	40
4/21/2014	DA LMP - Price	INDIANA.HUB	7:00	40.13
4/21/2014	DA LMP - Price	INDIANA.HUB	8:00	40
4/21/2014	DA LMP - Price	INDIANA.HUB	9:00	42.86
4/21/2014	DA LMP - Price	INDIANA.HUB	10:00	45.57
4/21/2014	DA LMP - Price	INDIANA.HUB	11:00	48.59
4/21/2014	DA LMP - Price	INDIANA.HUB	12:00	48.72
4/21/2014	DA LMP - Price	INDIANA.HUB	13:00	46.02
4/21/2014	DA LMP - Price	INDIANA.HUB	14:00	46.24
4/21/2014	DA LMP - Price	INDIANA.HUB	15:00	41.38
4/21/2014	DA LMP - Price	INDIANA.HUB	16:00	42.4
4/21/2014	DA LMP - Price	INDIANA.HUB	17:00	40.8
4/21/2014	DA LMP - Price	INDIANA.HUB	18:00	40.07
4/21/2014	DA LMP - Price	INDIANA.HUB	19:00	40.95
4/21/2014	DA LMP - Price	INDIANA.HUB	20:00	50.87
4/21/2014	DA LMP - Price	INDIANA.HUB	21:00	47.16
4/21/2014	DA LMP - Price	INDIANA.HUB	22:00	37.81
4/21/2014	DA LMP - Price	INDIANA.HUB	23:00	31.83
4/21/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.02
4/22/2014	DA LMP - Price	INDIANA.HUB	1:00	27.86
4/22/2014	DA LMP - Price	INDIANA.HUB	2:00	26.66
4/22/2014	DA LMP - Price	INDIANA.HUB	3:00	25.96
4/22/2014	DA LMP - Price	INDIANA.HUB	4:00	26.58

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Trade Date	Price Type	Transaction Point	Per End	Price
4/22/2014	DA LMP - Price	INDIANA.HUB	5:00	30.32
4/22/2014	DA LMP - Price	INDIANA.HUB	6:00	42.97
4/22/2014	DA LMP - Price	INDIANA.HUB	7:00	42.65
4/22/2014	DA LMP - Price	INDIANA.HUB	8:00	48.29
4/22/2014	DA LMP - Price	INDIANA.HUB	9:00	47.33
4/22/2014	DA LMP - Price	INDIANA.HUB	10:00	47.44
4/22/2014	DA LMP - Price	INDIANA.HUB	11:00	47.3
4/22/2014	DA LMP - Price	INDIANA.HUB	12:00	47.39
4/22/2014	DA LMP - Price	INDIANA.HUB	13:00	47.35
4/22/2014	DA LMP - Price	INDIANA.HUB	14:00	47.44
4/22/2014	DA LMP - Price	INDIANA.HUB	15:00	45.21
4/22/2014	DA LMP - Price	INDIANA.HUB	16:00	44.04
4/22/2014	DA LMP - Price	INDIANA.HUB	17:00	42.72
4/22/2014	DA LMP - Price	INDIANA.HUB	18:00	41.07
4/22/2014	DA LMP - Price	INDIANA.HUB	19:00	40.44
4/22/2014	DA LMP - Price	INDIANA.HUB	20:00	48.22
4/22/2014	DA LMP - Price	INDIANA.HUB	21:00	46.67
4/22/2014	DA LMP - Price	INDIANA.HUB	22:00	34.91
4/22/2014	DA LMP - Price	INDIANA.HUB	23:00	30.44
4/22/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.31
4/23/2014	DA LMP - Price	INDIANA.HUB	1:00	26.95
4/23/2014	DA LMP - Price	INDIANA.HUB	2:00	26.41
4/23/2014	DA LMP - Price	INDIANA.HUB	3:00	26.03
4/23/2014	DA LMP - Price	INDIANA.HUB	4:00	26.9
4/23/2014	DA LMP - Price	INDIANA.HUB	5:00	30.69
4/23/2014	DA LMP - Price	INDIANA.HUB	6:00	43.68
4/23/2014	DA LMP - Price	INDIANA.HUB	7:00	45.21
4/23/2014	DA LMP - Price	INDIANA.HUB	8:00	46.11
4/23/2014	DA LMP - Price	INDIANA.HUB	9:00	50.06
4/23/2014	DA LMP - Price	INDIANA.HUB	10:00	49.27
4/23/2014	DA LMP - Price	INDIANA.HUB	11:00	45.5
4/23/2014	DA LMP - Price	INDIANA.HUB	12:00	44.44
4/23/2014	DA LMP - Price	INDIANA.HUB	13:00	43.16
4/23/2014	DA LMP - Price	INDIANA.HUB	14:00	41.18
4/23/2014	DA LMP - Price	INDIANA.HUB	15:00	38.52
4/23/2014	DA LMP - Price	INDIANA.HUB	16:00	37.72
4/23/2014	DA LMP - Price	INDIANA.HUB	17:00	37.64
4/23/2014	DA LMP - Price	INDIANA.HUB	18:00	36.84
4/23/2014	DA LMP - Price	INDIANA.HUB	19:00	38.02
4/23/2014	DA LMP - Price	INDIANA.HUB	20:00	46.42
4/23/2014	DA LMP - Price	INDIANA.HUB	21:00	42.37
4/23/2014	DA LMP - Price	INDIANA.HUB	22:00	37.17
4/23/2014	DA LMP - Price	INDIANA.HUB	23:00	30.47
4/23/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.8
4/24/2014	DA LMP - Price	INDIANA.HUB	1:00	26.14
4/24/2014	DA LMP - Price	INDIANA.HUB	2:00	24.89

Trade Date	Price Type	Transaction Point	Per End	Price
4/24/2014	DA LMP - Price	INDIANA.HUB	3:00	24.66
4/24/2014	DA LMP - Price	INDIANA.HUB	4:00	24.98
4/24/2014	DA LMP - Price	INDIANA.HUB	5:00	27.5
4/24/2014	DA LMP - Price	INDIANA.HUB	6:00	40.5
4/24/2014	DA LMP - Price	INDIANA.HUB	7:00	39.55
4/24/2014	DA LMP - Price	INDIANA.HUB	8:00	39.81
4/24/2014	DA LMP - Price	INDIANA.HUB	9:00	41.65
4/24/2014	DA LMP - Price	INDIANA.HUB	10:00	44.03
4/24/2014	DA LMP - Price	INDIANA.HUB	11:00	42.21
4/24/2014	DA LMP - Price	INDIANA.HUB	12:00	41.06
4/24/2014	DA LMP - Price	INDIANA.HUB	13:00	39.51
4/24/2014	DA LMP - Price	INDIANA.HUB	14:00	39.46
4/24/2014	DA LMP - Price	INDIANA.HUB	15:00	37.43
4/24/2014	DA LMP - Price	INDIANA.HUB	16:00	35.29
4/24/2014	DA LMP - Price	INDIANA.HUB	17:00	35.3
4/24/2014	DA LMP - Price	INDIANA.HUB	18:00	32.88
4/24/2014	DA LMP - Price	INDIANA.HUB	19:00	33.51
4/24/2014	DA LMP - Price	INDIANA.HUB	20:00	41.42
4/24/2014	DA LMP - Price	INDIANA.HUB	21:00	43.04
4/24/2014	DA LMP - Price	INDIANA.HUB	22:00	36.21
4/24/2014	DA LMP - Price	INDIANA.HUB	23:00	29.83
4/24/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.68
4/25/2014	DA LMP - Price	INDIANA.HUB	1:00	26.18
4/25/2014	DA LMP - Price	INDIANA.HUB	2:00	25.34
4/25/2014	DA LMP - Price	INDIANA.HUB	3:00	24.63
4/25/2014	DA LMP - Price	INDIANA.HUB	4:00	25.06
4/25/2014	DA LMP - Price	INDIANA.HUB	5:00	27.59
4/25/2014	DA LMP - Price	INDIANA.HUB	6:00	42.47
4/25/2014	DA LMP - Price	INDIANA.HUB	7:00	40.83
4/25/2014	DA LMP - Price	INDIANA.HUB	8:00	41.3
4/25/2014	DA LMP - Price	INDIANA.HUB	9:00	45.62
4/25/2014	DA LMP - Price	INDIANA.HUB	10:00	48.07
4/25/2014	DA LMP - Price	INDIANA.HUB	11:00	48.58
4/25/2014	DA LMP - Price	INDIANA.HUB	12:00	47.63
4/25/2014	DA LMP - Price	INDIANA.HUB	13:00	46.63
4/25/2014	DA LMP - Price	INDIANA.HUB	14:00	43.7
4/25/2014	DA LMP - Price	INDIANA.HUB	15:00	39.2
4/25/2014	DA LMP - Price	INDIANA.HUB	16:00	36.77
4/25/2014	DA LMP - Price	INDIANA.HUB	17:00	34.72
4/25/2014	DA LMP - Price	INDIANA.HUB	18:00	32.36
4/25/2014	DA LMP - Price	INDIANA.HUB	19:00	36.49
4/25/2014	DA LMP - Price	INDIANA.HUB	20:00	43.87
4/25/2014	DA LMP - Price	INDIANA.HUB	21:00	44.88
4/25/2014	DA LMP - Price	INDIANA.HUB	22:00	38.5
4/25/2014	DA LMP - Price	INDIANA.HUB	23:00	30.2
4/25/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.37

Trade Date	Price Type	Transaction Point	Per End	Price
4/26/2014	DA LMP - Price	INDIANA.HUB	1:00	27.81
4/26/2014	DA LMP - Price	INDIANA.HUB	2:00	26.33
4/26/2014	DA LMP - Price	INDIANA.HUB	3:00	25.81
4/26/2014	DA LMP - Price	INDIANA.HUB	4:00	26.01
4/26/2014	DA LMP - Price	INDIANA.HUB	5:00	27.02
4/26/2014	DA LMP - Price	INDIANA.HUB	6:00	28.48
4/26/2014	DA LMP - Price	INDIANA.HUB	7:00	30.2
4/26/2014	DA LMP - Price	INDIANA.HUB	8:00	33.46
4/26/2014	DA LMP - Price	INDIANA.HUB	9:00	38.45
4/26/2014	DA LMP - Price	INDIANA.HUB	10:00	40.77
4/26/2014	DA LMP - Price	INDIANA.HUB	11:00	37.7
4/26/2014	DA LMP - Price	INDIANA.HUB	12:00	36
4/26/2014	DA LMP - Price	INDIANA.HUB	13:00	35.47
4/26/2014	DA LMP - Price	INDIANA.HUB	14:00	33.24
4/26/2014	DA LMP - Price	INDIANA.HUB	15:00	32.04
4/26/2014	DA LMP - Price	INDIANA.HUB	16:00	31.59
4/26/2014	DA LMP - Price	INDIANA.HUB	17:00	32.03
4/26/2014	DA LMP - Price	INDIANA.HUB	18:00	33
4/26/2014	DA LMP - Price	INDIANA.HUB	19:00	32.85
4/26/2014	DA LMP - Price	INDIANA.HUB	20:00	41.4
4/26/2014	DA LMP - Price	INDIANA.HUB	21:00	40.44
4/26/2014	DA LMP - Price	INDIANA.HUB	22:00	33.56
4/26/2014	DA LMP - Price	INDIANA.HUB	23:00	27.67
4/26/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.41
4/27/2014	DA LMP - Price	INDIANA.HUB	1:00	28.26
4/27/2014	DA LMP - Price	INDIANA.HUB	2:00	26.12
4/27/2014	DA LMP - Price	INDIANA.HUB	3:00	25
4/27/2014	DA LMP - Price	INDIANA.HUB	4:00	25.43
4/27/2014	DA LMP - Price	INDIANA.HUB	5:00	27.79
4/27/2014	DA LMP - Price	INDIANA.HUB	6:00	29.16
4/27/2014	DA LMP - Price	INDIANA.HUB	7:00	29.84
4/27/2014	DA LMP - Price	INDIANA.HUB	8:00	33.73
4/27/2014	DA LMP - Price	INDIANA.HUB	9:00	36.93
4/27/2014	DA LMP - Price	INDIANA.HUB	10:00	37.73
4/27/2014	DA LMP - Price	INDIANA.HUB	11:00	38.06
4/27/2014	DA LMP - Price	INDIANA.HUB	12:00	37.25
4/27/2014	DA LMP - Price	INDIANA.HUB	13:00	38.01
4/27/2014	DA LMP - Price	INDIANA.HUB	14:00	35.61
4/27/2014	DA LMP - Price	INDIANA.HUB	15:00	35.07
4/27/2014	DA LMP - Price	INDIANA.HUB	16:00	34.34
4/27/2014	DA LMP - Price	INDIANA.HUB	17:00	33.68
4/27/2014	DA LMP - Price	INDIANA.HUB	18:00	35.08
4/27/2014	DA LMP - Price	INDIANA.HUB	19:00	35.11
4/27/2014	DA LMP - Price	INDIANA.HUB	20:00	46.17
4/27/2014	DA LMP - Price	INDIANA.HUB	21:00	45.25
4/27/2014	DA LMP - Price	INDIANA.HUB	22:00	32.26

Trade Date	Price Type	Transaction Point	Per End	Price
4/27/2014	DA LMP - Price	INDIANA.HUB	23:00	26.8
4/27/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.25
4/28/2014	DA LMP - Price	INDIANA.HUB	1:00	23.65
4/28/2014	DA LMP - Price	INDIANA.HUB	2:00	22.78
4/28/2014	DA LMP - Price	INDIANA.HUB	3:00	22.57
4/28/2014	DA LMP - Price	INDIANA.HUB	4:00	23.17
4/28/2014	DA LMP - Price	INDIANA.HUB	5:00	26.18
4/28/2014	DA LMP - Price	INDIANA.HUB	6:00	39.26
4/28/2014	DA LMP - Price	INDIANA.HUB	7:00	39.71
4/28/2014	DA LMP - Price	INDIANA.HUB	8:00	38.87
4/28/2014	DA LMP - Price	INDIANA.HUB	9:00	43.43
4/28/2014	DA LMP - Price	INDIANA.HUB	10:00	44.46
4/28/2014	DA LMP - Price	INDIANA.HUB	11:00	47.83
4/28/2014	DA LMP - Price	INDIANA.HUB	12:00	47.34
4/28/2014	DA LMP - Price	INDIANA.HUB	13:00	49.48
4/28/2014	DA LMP - Price	INDIANA.HUB	14:00	49.67
4/28/2014	DA LMP - Price	INDIANA.HUB	15:00	47.09
4/28/2014	DA LMP - Price	INDIANA.HUB	16:00	45.8
4/28/2014	DA LMP - Price	INDIANA.HUB	17:00	45.3
4/28/2014	DA LMP - Price	INDIANA.HUB	18:00	43.2
4/28/2014	DA LMP - Price	INDIANA.HUB	19:00	43.68
4/28/2014	DA LMP - Price	INDIANA.HUB	20:00	57.54
4/28/2014	DA LMP - Price	INDIANA.HUB	21:00	51.59
4/28/2014	DA LMP - Price	INDIANA.HUB	22:00	37.91
4/28/2014	DA LMP - Price	INDIANA.HUB	23:00	31.65
4/28/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.77
4/29/2014	DA LMP - Price	INDIANA.HUB	1:00	28.45
4/29/2014	DA LMP - Price	INDIANA.HUB	2:00	27.1
4/29/2014	DA LMP - Price	INDIANA.HUB	3:00	27.66
4/29/2014	DA LMP - Price	INDIANA.HUB	4:00	28.02
4/29/2014	DA LMP - Price	INDIANA.HUB	5:00	29.98
4/29/2014	DA LMP - Price	INDIANA.HUB	6:00	41.49
4/29/2014	DA LMP - Price	INDIANA.HUB	7:00	46.17
4/29/2014	DA LMP - Price	INDIANA.HUB	8:00	47.52
4/29/2014	DA LMP - Price	INDIANA.HUB	9:00	47.94
4/29/2014	DA LMP - Price	INDIANA.HUB	10:00	49.97
4/29/2014	DA LMP - Price	INDIANA.HUB	11:00	48.18
4/29/2014	DA LMP - Price	INDIANA.HUB	12:00	47.65
4/29/2014	DA LMP - Price	INDIANA.HUB	13:00	48.73
4/29/2014	DA LMP - Price	INDIANA.HUB	14:00	53.83
4/29/2014	DA LMP - Price	INDIANA.HUB	15:00	52.94
4/29/2014	DA LMP - Price	INDIANA.HUB	16:00	51.15
4/29/2014	DA LMP - Price	INDIANA.HUB	17:00	50.97
4/29/2014	DA LMP - Price	INDIANA.HUB	18:00	46.78
4/29/2014	DA LMP - Price	INDIANA.HUB	19:00	47.51
4/29/2014	DA LMP - Price	INDIANA.HUB	20:00	58.41

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Trade Date	Price Type	Transaction Point	Per End	Price
4/29/2014	DA LMP - Price	INDIANA.HUB	21:00	56.56
4/29/2014	DA LMP - Price	INDIANA.HUB	22:00	38.7
4/29/2014	DA LMP - Price	INDIANA.HUB	23:00	35.01
4/29/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.83
4/30/2014	DA LMP - Price	INDIANA.HUB	1:00	28.56
4/30/2014	DA LMP - Price	INDIANA.HUB	2:00	27.46
4/30/2014	DA LMP - Price	INDIANA.HUB	3:00	27.54
4/30/2014	DA LMP - Price	INDIANA.HUB	4:00	28.72
4/30/2014	DA LMP - Price	INDIANA.HUB	5:00	31.95
4/30/2014	DA LMP - Price	INDIANA.HUB	6:00	42.05
4/30/2014	DA LMP - Price	INDIANA.HUB	7:00	47.28
4/30/2014	DA LMP - Price	INDIANA.HUB	8:00	49.17
4/30/2014	DA LMP - Price	INDIANA.HUB	9:00	52.56
4/30/2014	DA LMP - Price	INDIANA.HUB	10:00	51.61
4/30/2014	DA LMP - Price	INDIANA.HUB	11:00	52.34
4/30/2014	DA LMP - Price	INDIANA.HUB	12:00	50.87
4/30/2014	DA LMP - Price	INDIANA.HUB	13:00	49.14
4/30/2014	DA LMP - Price	INDIANA.HUB	14:00	49.18
4/30/2014	DA LMP - Price	INDIANA.HUB	15:00	45.52
4/30/2014	DA LMP - Price	INDIANA.HUB	16:00	45.6
4/30/2014	DA LMP - Price	INDIANA.HUB	17:00	48.75
4/30/2014	DA LMP - Price	INDIANA.HUB	18:00	47.35
4/30/2014	DA LMP - Price	INDIANA.HUB	19:00	46.58
4/30/2014	DA LMP - Price	INDIANA.HUB	20:00	58.77
4/30/2014	DA LMP - Price	INDIANA.HUB	21:00	60.15
4/30/2014	DA LMP - Price	INDIANA.HUB	22:00	44.13
4/30/2014	DA LMP - Price	INDIANA.HUB	23:00	37.28
4/30/2014	DA LMP - Price	INDIANA.HUB	24:00:00	32.82
5/1/2014	DA LMP - Price	INDIANA.HUB	1:00	31.48
5/1/2014	DA LMP - Price	INDIANA.HUB	2:00	30.52
5/1/2014	DA LMP - Price	INDIANA.HUB	3:00	30.19
5/1/2014	DA LMP - Price	INDIANA.HUB	4:00	30.41
5/1/2014	DA LMP - Price	INDIANA.HUB	5:00	34.39
5/1/2014	DA LMP - Price	INDIANA.HUB	6:00	48.75
5/1/2014	DA LMP - Price	INDIANA.HUB	7:00	58.79
5/1/2014	DA LMP - Price	INDIANA.HUB	8:00	58.89
5/1/2014	DA LMP - Price	INDIANA.HUB	9:00	61.07
5/1/2014	DA LMP - Price	INDIANA.HUB	10:00	57.46
5/1/2014	DA LMP - Price	INDIANA.HUB	11:00	56.84
5/1/2014	DA LMP - Price	INDIANA.HUB	12:00	54
5/1/2014	DA LMP - Price	INDIANA.HUB	13:00	51.16
5/1/2014	DA LMP - Price	INDIANA.HUB	14:00	48.86
5/1/2014	DA LMP - Price	INDIANA.HUB	15:00	46.54
5/1/2014	DA LMP - Price	INDIANA.HUB	16:00	46.77
5/1/2014	DA LMP - Price	INDIANA.HUB	17:00	47.45
5/1/2014	DA LMP - Price	INDIANA.HUB	18:00	46.13

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Trade Date	Price Type	Transaction Point	Per End	Price
5/1/2014	DA LMP - Price	INDIANA.HUB	19:00	47.95
5/1/2014	DA LMP - Price	INDIANA.HUB	20:00	62.13
5/1/2014	DA LMP - Price	INDIANA.HUB	21:00	68.99
5/1/2014	DA LMP - Price	INDIANA.HUB	22:00	47.91
5/1/2014	DA LMP - Price	INDIANA.HUB	23:00	37.8
5/1/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.51
5/2/2014	DA LMP - Price	INDIANA.HUB	1:00	29.95
5/2/2014	DA LMP - Price	INDIANA.HUB	2:00	27.18
5/2/2014	DA LMP - Price	INDIANA.HUB	3:00	27.2
5/2/2014	DA LMP - Price	INDIANA.HUB	4:00	27.49
5/2/2014	DA LMP - Price	INDIANA.HUB	5:00	30.13
5/2/2014	DA LMP - Price	INDIANA.HUB	6:00	40.98
5/2/2014	DA LMP - Price	INDIANA.HUB	7:00	50.13
5/2/2014	DA LMP - Price	INDIANA.HUB	8:00	48.16
5/2/2014	DA LMP - Price	INDIANA.HUB	9:00	49.63
5/2/2014	DA LMP - Price	INDIANA.HUB	10:00	47.55
5/2/2014	DA LMP - Price	INDIANA.HUB	11:00	44.91
5/2/2014	DA LMP - Price	INDIANA.HUB	12:00	44.27
5/2/2014	DA LMP - Price	INDIANA.HUB	13:00	42.15
5/2/2014	DA LMP - Price	INDIANA.HUB	14:00	40.89
5/2/2014	DA LMP - Price	INDIANA.HUB	15:00	39.71
5/2/2014	DA LMP - Price	INDIANA.HUB	16:00	38.06
5/2/2014	DA LMP - Price	INDIANA.HUB	17:00	37.62
5/2/2014	DA LMP - Price	INDIANA.HUB	18:00	37.04
5/2/2014	DA LMP - Price	INDIANA.HUB	19:00	37.98
5/2/2014	DA LMP - Price	INDIANA.HUB	20:00	42.73
5/2/2014	DA LMP - Price	INDIANA.HUB	21:00	45.58
5/2/2014	DA LMP - Price	INDIANA.HUB	22:00	39.14
5/2/2014	DA LMP - Price	INDIANA.HUB	23:00	34.35
5/2/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.39
5/3/2014	DA LMP - Price	INDIANA.HUB	1:00	30.73
5/3/2014	DA LMP - Price	INDIANA.HUB	2:00	28.93
5/3/2014	DA LMP - Price	INDIANA.HUB	3:00	27.75
5/3/2014	DA LMP - Price	INDIANA.HUB	4:00	27.69
5/3/2014	DA LMP - Price	INDIANA.HUB	5:00	28
5/3/2014	DA LMP - Price	INDIANA.HUB	6:00	30.24
5/3/2014	DA LMP - Price	INDIANA.HUB	7:00	34.71
5/3/2014	DA LMP - Price	INDIANA.HUB	8:00	36.76
5/3/2014	DA LMP - Price	INDIANA.HUB	9:00	44.77
5/3/2014	DA LMP - Price	INDIANA.HUB	10:00	47.09
5/3/2014	DA LMP - Price	INDIANA.HUB	11:00	47.13
5/3/2014	DA LMP - Price	INDIANA.HUB	12:00	44.64
5/3/2014	DA LMP - Price	INDIANA.HUB	13:00	40.09
5/3/2014	DA LMP - Price	INDIANA.HUB	14:00	38.49
5/3/2014	DA LMP - Price	INDIANA.HUB	15:00	37.98
5/3/2014	DA LMP - Price	INDIANA.HUB	16:00	36.44

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Trade Date	Price Type	Transaction Point	Per End	Price
5/3/2014	DA LMP - Price	INDIANA.HUB	17:00	35.62
5/3/2014	DA LMP - Price	INDIANA.HUB	18:00	34.91
5/3/2014	DA LMP - Price	INDIANA.HUB	19:00	36.11
5/3/2014	DA LMP - Price	INDIANA.HUB	20:00	43.82
5/3/2014	DA LMP - Price	INDIANA.HUB	21:00	47.85
5/3/2014	DA LMP - Price	INDIANA.HUB	22:00	40.86
5/3/2014	DA LMP - Price	INDIANA.HUB	23:00	32.95
5/3/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.83
5/4/2014	DA LMP - Price	INDIANA.HUB	1:00	28.5
5/4/2014	DA LMP - Price	INDIANA.HUB	2:00	27.07
5/4/2014	DA LMP - Price	INDIANA.HUB	3:00	27.12
5/4/2014	DA LMP - Price	INDIANA.HUB	4:00	26.31
5/4/2014	DA LMP - Price	INDIANA.HUB	5:00	26.59
5/4/2014	DA LMP - Price	INDIANA.HUB	6:00	27.91
5/4/2014	DA LMP - Price	INDIANA.HUB	7:00	29.87
5/4/2014	DA LMP - Price	INDIANA.HUB	8:00	35.22
5/4/2014	DA LMP - Price	INDIANA.HUB	9:00	35.47
5/4/2014	DA LMP - Price	INDIANA.HUB	10:00	36.46
5/4/2014	DA LMP - Price	INDIANA.HUB	11:00	36.61
5/4/2014	DA LMP - Price	INDIANA.HUB	12:00	36.31
5/4/2014	DA LMP - Price	INDIANA.HUB	13:00	37.82
5/4/2014	DA LMP - Price	INDIANA.HUB	14:00	36.72
5/4/2014	DA LMP - Price	INDIANA.HUB	15:00	36.07
5/4/2014	DA LMP - Price	INDIANA.HUB	16:00	35.14
5/4/2014	DA LMP - Price	INDIANA.HUB	17:00	38.68
5/4/2014	DA LMP - Price	INDIANA.HUB	18:00	41.21
5/4/2014	DA LMP - Price	INDIANA.HUB	19:00	39.51
5/4/2014	DA LMP - Price	INDIANA.HUB	20:00	50.62
5/4/2014	DA LMP - Price	INDIANA.HUB	21:00	54.57
5/4/2014	DA LMP - Price	INDIANA.HUB	22:00	38.73
5/4/2014	DA LMP - Price	INDIANA.HUB	23:00	32.46
5/4/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.58
5/5/2014	DA LMP - Price	INDIANA.HUB	1:00	27.45
5/5/2014	DA LMP - Price	INDIANA.HUB	2:00	27.19
5/5/2014	DA LMP - Price	INDIANA.HUB	3:00	27.1
5/5/2014	DA LMP - Price	INDIANA.HUB	4:00	27.4
5/5/2014	DA LMP - Price	INDIANA.HUB	5:00	29.56
5/5/2014	DA LMP - Price	INDIANA.HUB	6:00	39.5
5/5/2014	DA LMP - Price	INDIANA.HUB	7:00	47.09
5/5/2014	DA LMP - Price	INDIANA.HUB	8:00	48.28
5/5/2014	DA LMP - Price	INDIANA.HUB	9:00	51.22
5/5/2014	DA LMP - Price	INDIANA.HUB	10:00	50.63
5/5/2014	DA LMP - Price	INDIANA.HUB	11:00	52.06
5/5/2014	DA LMP - Price	INDIANA.HUB	12:00	53.56
5/5/2014	DA LMP - Price	INDIANA.HUB	13:00	54.4
5/5/2014	DA LMP - Price	INDIANA.HUB	14:00	55.32

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Trade Date	Price Type	Transaction Point	Per End	Price
5/5/2014	DA LMP - Price	INDIANA.HUB	15:00	52.67
5/5/2014	DA LMP - Price	INDIANA.HUB	16:00	50.87
5/5/2014	DA LMP - Price	INDIANA.HUB	17:00	50.51
5/5/2014	DA LMP - Price	INDIANA.HUB	18:00	49.01
5/5/2014	DA LMP - Price	INDIANA.HUB	19:00	44.98
5/5/2014	DA LMP - Price	INDIANA.HUB	20:00	55.99
5/5/2014	DA LMP - Price	INDIANA.HUB	21:00	58
5/5/2014	DA LMP - Price	INDIANA.HUB	22:00	42.55
5/5/2014	DA LMP - Price	INDIANA.HUB	23:00	35.56
5/5/2014	DA LMP - Price	INDIANA.HUB	24:00:00	31.88
5/6/2014	DA LMP - Price	INDIANA.HUB	1:00	30.07
5/6/2014	DA LMP - Price	INDIANA.HUB	2:00	27.68
5/6/2014	DA LMP - Price	INDIANA.HUB	3:00	27.41
5/6/2014	DA LMP - Price	INDIANA.HUB	4:00	27.88
5/6/2014	DA LMP - Price	INDIANA.HUB	5:00	29.91
5/6/2014	DA LMP - Price	INDIANA.HUB	6:00	39.78
5/6/2014	DA LMP - Price	INDIANA.HUB	7:00	45.72
5/6/2014	DA LMP - Price	INDIANA.HUB	8:00	45.63
5/6/2014	DA LMP - Price	INDIANA.HUB	9:00	46.1
5/6/2014	DA LMP - Price	INDIANA.HUB	10:00	44.77
5/6/2014	DA LMP - Price	INDIANA.HUB	11:00	46.19
5/6/2014	DA LMP - Price	INDIANA.HUB	12:00	46.15
5/6/2014	DA LMP - Price	INDIANA.HUB	13:00	46.23
5/6/2014	DA LMP - Price	INDIANA.HUB	14:00	46.63
5/6/2014	DA LMP - Price	INDIANA.HUB	15:00	48.23
5/6/2014	DA LMP - Price	INDIANA.HUB	16:00	48.67
5/6/2014	DA LMP - Price	INDIANA.HUB	17:00	46.26
5/6/2014	DA LMP - Price	INDIANA.HUB	18:00	44.23
5/6/2014	DA LMP - Price	INDIANA.HUB	19:00	44.77
5/6/2014	DA LMP - Price	INDIANA.HUB	20:00	49.52
5/6/2014	DA LMP - Price	INDIANA.HUB	21:00	51.56
5/6/2014	DA LMP - Price	INDIANA.HUB	22:00	40.68
5/6/2014	DA LMP - Price	INDIANA.HUB	23:00	33.41
5/6/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.98
5/7/2014	DA LMP - Price	INDIANA.HUB	1:00	29.14
5/7/2014	DA LMP - Price	INDIANA.HUB	2:00	27.8
5/7/2014	DA LMP - Price	INDIANA.HUB	3:00	27.38
5/7/2014	DA LMP - Price	INDIANA.HUB	4:00	26.98
5/7/2014	DA LMP - Price	INDIANA.HUB	5:00	29.7
5/7/2014	DA LMP - Price	INDIANA.HUB	6:00	35.1
5/7/2014	DA LMP - Price	INDIANA.HUB	7:00	43.4
5/7/2014	DA LMP - Price	INDIANA.HUB	8:00	44.88
5/7/2014	DA LMP - Price	INDIANA.HUB	9:00	47.22
5/7/2014	DA LMP - Price	INDIANA.HUB	10:00	50.06
5/7/2014	DA LMP - Price	INDIANA.HUB	11:00	50.89
5/7/2014	DA LMP - Price	INDIANA.HUB	12:00	52.54

Trade Date	Price Type	Transaction Point	Per End	Price
5/7/2014	DA LMP - Price	INDIANA.HUB	13:00	52.18
5/7/2014	DA LMP - Price	INDIANA.HUB	14:00	56.55
5/7/2014	DA LMP - Price	INDIANA.HUB	15:00	57.34
5/7/2014	DA LMP - Price	INDIANA.HUB	16:00	55.83
5/7/2014	DA LMP - Price	INDIANA.HUB	17:00	54.34
5/7/2014	DA LMP - Price	INDIANA.HUB	18:00	52.42
5/7/2014	DA LMP - Price	INDIANA.HUB	19:00	47.85
5/7/2014	DA LMP - Price	INDIANA.HUB	20:00	54.45
5/7/2014	DA LMP - Price	INDIANA.HUB	21:00	57.44
5/7/2014	DA LMP - Price	INDIANA.HUB	22:00	40.22
5/7/2014	DA LMP - Price	INDIANA.HUB	23:00	33.88
5/7/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.37
5/8/2014	DA LMP - Price	INDIANA.HUB	1:00	26.11
5/8/2014	DA LMP - Price	INDIANA.HUB	2:00	25.24
5/8/2014	DA LMP - Price	INDIANA.HUB	3:00	24.98
5/8/2014	DA LMP - Price	INDIANA.HUB	4:00	24.63
5/8/2014	DA LMP - Price	INDIANA.HUB	5:00	27.71
5/8/2014	DA LMP - Price	INDIANA.HUB	6:00	35.53
5/8/2014	DA LMP - Price	INDIANA.HUB	7:00	40.35
5/8/2014	DA LMP - Price	INDIANA.HUB	8:00	42.98
5/8/2014	DA LMP - Price	INDIANA.HUB	9:00	46.15
5/8/2014	DA LMP - Price	INDIANA.HUB	10:00	48.63
5/8/2014	DA LMP - Price	INDIANA.HUB	11:00	50.66
5/8/2014	DA LMP - Price	INDIANA.HUB	12:00	53.41
5/8/2014	DA LMP - Price	INDIANA.HUB	13:00	54.85
5/8/2014	DA LMP - Price	INDIANA.HUB	14:00	56.9
5/8/2014	DA LMP - Price	INDIANA.HUB	15:00	59.87
5/8/2014	DA LMP - Price	INDIANA.HUB	16:00	60.79
5/8/2014	DA LMP - Price	INDIANA.HUB	17:00	60.09
5/8/2014	DA LMP - Price	INDIANA.HUB	18:00	54.99
5/8/2014	DA LMP - Price	INDIANA.HUB	19:00	50.72
5/8/2014	DA LMP - Price	INDIANA.HUB	20:00	53.53
5/8/2014	DA LMP - Price	INDIANA.HUB	21:00	59.38
5/8/2014	DA LMP - Price	INDIANA.HUB	22:00	42.33
5/8/2014	DA LMP - Price	INDIANA.HUB	23:00	34.49
5/8/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.02
5/9/2014	DA LMP - Price	INDIANA.HUB	1:00	27.86
5/9/2014	DA LMP - Price	INDIANA.HUB	2:00	25.76
5/9/2014	DA LMP - Price	INDIANA.HUB	3:00	25.08
5/9/2014	DA LMP - Price	INDIANA.HUB	4:00	24.63
5/9/2014	DA LMP - Price	INDIANA.HUB	5:00	28.12
5/9/2014	DA LMP - Price	INDIANA.HUB	6:00	35.03
5/9/2014	DA LMP - Price	INDIANA.HUB	7:00	39.21
5/9/2014	DA LMP - Price	INDIANA.HUB	8:00	39.8
5/9/2014	DA LMP - Price	INDIANA.HUB	9:00	42.11
5/9/2014	DA LMP - Price	INDIANA.HUB	10:00	43.93

Trade Date	Price Type	Transaction Point	Per End	Price
5/9/2014	DA LMP - Price	INDIANA.HUB	11:00	44.07
5/9/2014	DA LMP - Price	INDIANA.HUB	12:00	44.68
5/9/2014	DA LMP - Price	INDIANA.HUB	13:00	45.05
5/9/2014	DA LMP - Price	INDIANA.HUB	14:00	45.74
5/9/2014	DA LMP - Price	INDIANA.HUB	15:00	45.93
5/9/2014	DA LMP - Price	INDIANA.HUB	16:00	45.86
5/9/2014	DA LMP - Price	INDIANA.HUB	17:00	44.63
5/9/2014	DA LMP - Price	INDIANA.HUB	18:00	43.16
5/9/2014	DA LMP - Price	INDIANA.HUB	19:00	40.27
5/9/2014	DA LMP - Price	INDIANA.HUB	20:00	41.96
5/9/2014	DA LMP - Price	INDIANA.HUB	21:00	45.98
5/9/2014	DA LMP - Price	INDIANA.HUB	22:00	39.85
5/9/2014	DA LMP - Price	INDIANA.HUB	23:00	34.98
5/9/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.93
5/10/2014	DA LMP - Price	INDIANA.HUB	1:00	28.22
5/10/2014	DA LMP - Price	INDIANA.HUB	2:00	25.73
5/10/2014	DA LMP - Price	INDIANA.HUB	3:00	25.35
5/10/2014	DA LMP - Price	INDIANA.HUB	4:00	25.08
5/10/2014	DA LMP - Price	INDIANA.HUB	5:00	25.14
5/10/2014	DA LMP - Price	INDIANA.HUB	6:00	25.25
5/10/2014	DA LMP - Price	INDIANA.HUB	7:00	27.06
5/10/2014	DA LMP - Price	INDIANA.HUB	8:00	32.29
5/10/2014	DA LMP - Price	INDIANA.HUB	9:00	36.19
5/10/2014	DA LMP - Price	INDIANA.HUB	10:00	37.73
5/10/2014	DA LMP - Price	INDIANA.HUB	11:00	39.58
5/10/2014	DA LMP - Price	INDIANA.HUB	12:00	38.64
5/10/2014	DA LMP - Price	INDIANA.HUB	13:00	38.6
5/10/2014	DA LMP - Price	INDIANA.HUB	14:00	37.57
5/10/2014	DA LMP - Price	INDIANA.HUB	15:00	37.93
5/10/2014	DA LMP - Price	INDIANA.HUB	16:00	39.1
5/10/2014	DA LMP - Price	INDIANA.HUB	17:00	37.51
5/10/2014	DA LMP - Price	INDIANA.HUB	18:00	34.94
5/10/2014	DA LMP - Price	INDIANA.HUB	19:00	35.52
5/10/2014	DA LMP - Price	INDIANA.HUB	20:00	36.71
5/10/2014	DA LMP - Price	INDIANA.HUB	21:00	39.19
5/10/2014	DA LMP - Price	INDIANA.HUB	22:00	36.05
5/10/2014	DA LMP - Price	INDIANA.HUB	23:00	28.86
5/10/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.94
5/11/2014	DA LMP - Price	INDIANA.HUB	1:00	27.83
5/11/2014	DA LMP - Price	INDIANA.HUB	2:00	26.51
5/11/2014	DA LMP - Price	INDIANA.HUB	3:00	25.08
5/11/2014	DA LMP - Price	INDIANA.HUB	4:00	24.44
5/11/2014	DA LMP - Price	INDIANA.HUB	5:00	23.76
5/11/2014	DA LMP - Price	INDIANA.HUB	6:00	24.02
5/11/2014	DA LMP - Price	INDIANA.HUB	7:00	25.25
5/11/2014	DA LMP - Price	INDIANA.HUB	8:00	27.84

Trade Date	Price Type	Transaction Point	Per End	Price
5/11/2014	DA LMP - Price	INDIANA.HUB	9:00	32.69
5/11/2014	DA LMP - Price	INDIANA.HUB	10:00	34.6
5/11/2014	DA LMP - Price	INDIANA.HUB	11:00	36.68
5/11/2014	DA LMP - Price	INDIANA.HUB	12:00	37.27
5/11/2014	DA LMP - Price	INDIANA.HUB	13:00	37.91
5/11/2014	DA LMP - Price	INDIANA.HUB	14:00	37.72
5/11/2014	DA LMP - Price	INDIANA.HUB	15:00	39.72
5/11/2014	DA LMP - Price	INDIANA.HUB	16:00	38.96
5/11/2014	DA LMP - Price	INDIANA.HUB	17:00	37.82
5/11/2014	DA LMP - Price	INDIANA.HUB	18:00	37.9
5/11/2014	DA LMP - Price	INDIANA.HUB	19:00	39.01
5/11/2014	DA LMP - Price	INDIANA.HUB	20:00	39.29
5/11/2014	DA LMP - Price	INDIANA.HUB	21:00	39.96
5/11/2014	DA LMP - Price	INDIANA.HUB	22:00	36.94
5/11/2014	DA LMP - Price	INDIANA.HUB	23:00	31.99
5/11/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.64
5/12/2014	DA LMP - Price	INDIANA.HUB	1:00	31.81
5/12/2014	DA LMP - Price	INDIANA.HUB	2:00	28.24
5/12/2014	DA LMP - Price	INDIANA.HUB	3:00	27.73
5/12/2014	DA LMP - Price	INDIANA.HUB	4:00	28.16
5/12/2014	DA LMP - Price	INDIANA.HUB	5:00	30.93
5/12/2014	DA LMP - Price	INDIANA.HUB	6:00	35.59
5/12/2014	DA LMP - Price	INDIANA.HUB	7:00	40.52
5/12/2014	DA LMP - Price	INDIANA.HUB	8:00	43.47
5/12/2014	DA LMP - Price	INDIANA.HUB	9:00	45.93
5/12/2014	DA LMP - Price	INDIANA.HUB	10:00	48.18
5/12/2014	DA LMP - Price	INDIANA.HUB	11:00	49.63
5/12/2014	DA LMP - Price	INDIANA.HUB	12:00	53.06
5/12/2014	DA LMP - Price	INDIANA.HUB	13:00	57.02
5/12/2014	DA LMP - Price	INDIANA.HUB	14:00	60.72
5/12/2014	DA LMP - Price	INDIANA.HUB	15:00	61.51
5/12/2014	DA LMP - Price	INDIANA.HUB	16:00	61.94
5/12/2014	DA LMP - Price	INDIANA.HUB	17:00	62.62
5/12/2014	DA LMP - Price	INDIANA.HUB	18:00	60.14
5/12/2014	DA LMP - Price	INDIANA.HUB	19:00	53.85
5/12/2014	DA LMP - Price	INDIANA.HUB	20:00	51.29
5/12/2014	DA LMP - Price	INDIANA.HUB	21:00	54.97
5/12/2014	DA LMP - Price	INDIANA.HUB	22:00	46.91
5/12/2014	DA LMP - Price	INDIANA.HUB	23:00	38.29
5/12/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.97
5/13/2014	DA LMP - Price	INDIANA.HUB	1:00	30.94
5/13/2014	DA LMP - Price	INDIANA.HUB	2:00	27.37
5/13/2014	DA LMP - Price	INDIANA.HUB	3:00	26.47
5/13/2014	DA LMP - Price	INDIANA.HUB	4:00	25.92
5/13/2014	DA LMP - Price	INDIANA.HUB	5:00	27.52
5/13/2014	DA LMP - Price	INDIANA.HUB	6:00	35.32

Trade Date	Price Type	Transaction Point	Per End	Price
5/13/2014	DA LMP - Price	INDIANA.HUB	7:00	39.88
5/13/2014	DA LMP - Price	INDIANA.HUB	8:00	41.82
5/13/2014	DA LMP - Price	INDIANA.HUB	9:00	43.3
5/13/2014	DA LMP - Price	INDIANA.HUB	10:00	44.11
5/13/2014	DA LMP - Price	INDIANA.HUB	11:00	44.3
5/13/2014	DA LMP - Price	INDIANA.HUB	12:00	45.8
5/13/2014	DA LMP - Price	INDIANA.HUB	13:00	45.52
5/13/2014	DA LMP - Price	INDIANA.HUB	14:00	46.44
5/13/2014	DA LMP - Price	INDIANA.HUB	15:00	47.06
5/13/2014	DA LMP - Price	INDIANA.HUB	16:00	46.09
5/13/2014	DA LMP - Price	INDIANA.HUB	17:00	45.34
5/13/2014	DA LMP - Price	INDIANA.HUB	18:00	44.4
5/13/2014	DA LMP - Price	INDIANA.HUB	19:00	44.24
5/13/2014	DA LMP - Price	INDIANA.HUB	20:00	44.29
5/13/2014	DA LMP - Price	INDIANA.HUB	21:00	48.63
5/13/2014	DA LMP - Price	INDIANA.HUB	22:00	40.62
5/13/2014	DA LMP - Price	INDIANA.HUB	23:00	33.08
5/13/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.04
5/14/2014	DA LMP - Price	INDIANA.HUB	1:00	27.58
5/14/2014	DA LMP - Price	INDIANA.HUB	2:00	26.22
5/14/2014	DA LMP - Price	INDIANA.HUB	3:00	25.8
5/14/2014	DA LMP - Price	INDIANA.HUB	4:00	25.84
5/14/2014	DA LMP - Price	INDIANA.HUB	5:00	27.88
5/14/2014	DA LMP - Price	INDIANA.HUB	6:00	35.76
5/14/2014	DA LMP - Price	INDIANA.HUB	7:00	40.71
5/14/2014	DA LMP - Price	INDIANA.HUB	8:00	37.54
5/14/2014	DA LMP - Price	INDIANA.HUB	9:00	41.82
5/14/2014	DA LMP - Price	INDIANA.HUB	10:00	39.29
5/14/2014	DA LMP - Price	INDIANA.HUB	11:00	41
5/14/2014	DA LMP - Price	INDIANA.HUB	12:00	40.88
5/14/2014	DA LMP - Price	INDIANA.HUB	13:00	40.21
5/14/2014	DA LMP - Price	INDIANA.HUB	14:00	39.73
5/14/2014	DA LMP - Price	INDIANA.HUB	15:00	39.56
5/14/2014	DA LMP - Price	INDIANA.HUB	16:00	37.57
5/14/2014	DA LMP - Price	INDIANA.HUB	17:00	37.61
5/14/2014	DA LMP - Price	INDIANA.HUB	18:00	32.23
5/14/2014	DA LMP - Price	INDIANA.HUB	19:00	33.9
5/14/2014	DA LMP - Price	INDIANA.HUB	20:00	36.15
5/14/2014	DA LMP - Price	INDIANA.HUB	21:00	45.44
5/14/2014	DA LMP - Price	INDIANA.HUB	22:00	31.86
5/14/2014	DA LMP - Price	INDIANA.HUB	23:00	29.11
5/14/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.69
5/15/2014	DA LMP - Price	INDIANA.HUB	1:00	24.11
5/15/2014	DA LMP - Price	INDIANA.HUB	2:00	23.2
5/15/2014	DA LMP - Price	INDIANA.HUB	3:00	22.87
5/15/2014	DA LMP - Price	INDIANA.HUB	4:00	23.09

Trade Date	Price Type	Transaction Point	Per End	Price
5/15/2014	DA LMP - Price	INDIANA.HUB	5:00	24.75
5/15/2014	DA LMP - Price	INDIANA.HUB	6:00	29.05
5/15/2014	DA LMP - Price	INDIANA.HUB	7:00	49.11
5/15/2014	DA LMP - Price	INDIANA.HUB	8:00	39.34
5/15/2014	DA LMP - Price	INDIANA.HUB	9:00	39.97
5/15/2014	DA LMP - Price	INDIANA.HUB	10:00	40.89
5/15/2014	DA LMP - Price	INDIANA.HUB	11:00	40
5/15/2014	DA LMP - Price	INDIANA.HUB	12:00	39.75
5/15/2014	DA LMP - Price	INDIANA.HUB	13:00	36.99
5/15/2014	DA LMP - Price	INDIANA.HUB	14:00	36.84
5/15/2014	DA LMP - Price	INDIANA.HUB	15:00	37.01
5/15/2014	DA LMP - Price	INDIANA.HUB	16:00	36.63
5/15/2014	DA LMP - Price	INDIANA.HUB	17:00	36.34
5/15/2014	DA LMP - Price	INDIANA.HUB	18:00	35.99
5/15/2014	DA LMP - Price	INDIANA.HUB	19:00	36.3
5/15/2014	DA LMP - Price	INDIANA.HUB	20:00	38.55
5/15/2014	DA LMP - Price	INDIANA.HUB	21:00	61
5/15/2014	DA LMP - Price	INDIANA.HUB	22:00	36.41
5/15/2014	DA LMP - Price	INDIANA.HUB	23:00	30.22
5/15/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.41
5/16/2014	DA LMP - Price	INDIANA.HUB	1:00	27.04
5/16/2014	DA LMP - Price	INDIANA.HUB	2:00	26.28
5/16/2014	DA LMP - Price	INDIANA.HUB	3:00	26.18
5/16/2014	DA LMP - Price	INDIANA.HUB	4:00	25.83
5/16/2014	DA LMP - Price	INDIANA.HUB	5:00	28.19
5/16/2014	DA LMP - Price	INDIANA.HUB	6:00	34.79
5/16/2014	DA LMP - Price	INDIANA.HUB	7:00	42.76
5/16/2014	DA LMP - Price	INDIANA.HUB	8:00	44.84
5/16/2014	DA LMP - Price	INDIANA.HUB	9:00	44.93
5/16/2014	DA LMP - Price	INDIANA.HUB	10:00	45.33
5/16/2014	DA LMP - Price	INDIANA.HUB	11:00	44.5
5/16/2014	DA LMP - Price	INDIANA.HUB	12:00	45.22
5/16/2014	DA LMP - Price	INDIANA.HUB	13:00	44.22
5/16/2014	DA LMP - Price	INDIANA.HUB	14:00	43.3
5/16/2014	DA LMP - Price	INDIANA.HUB	15:00	42.81
5/16/2014	DA LMP - Price	INDIANA.HUB	16:00	38.53
5/16/2014	DA LMP - Price	INDIANA.HUB	17:00	38.91
5/16/2014	DA LMP - Price	INDIANA.HUB	18:00	38.42
5/16/2014	DA LMP - Price	INDIANA.HUB	19:00	36.85
5/16/2014	DA LMP - Price	INDIANA.HUB	20:00	40.46
5/16/2014	DA LMP - Price	INDIANA.HUB	21:00	43.34
5/16/2014	DA LMP - Price	INDIANA.HUB	22:00	39.36
5/16/2014	DA LMP - Price	INDIANA.HUB	23:00	33.09
5/16/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.15
5/17/2014	DA LMP - Price	INDIANA.HUB	1:00	29.26
5/17/2014	DA LMP - Price	INDIANA.HUB	2:00	27.64

Trade Date	Price Type	Transaction Point	Per End	Price
5/17/2014	DA LMP - Price	INDIANA.HUB	3:00	26.81
5/17/2014	DA LMP - Price	INDIANA.HUB	4:00	26.35
5/17/2014	DA LMP - Price	INDIANA.HUB	5:00	26.66
5/17/2014	DA LMP - Price	INDIANA.HUB	6:00	27.73
5/17/2014	DA LMP - Price	INDIANA.HUB	7:00	31.37
5/17/2014	DA LMP - Price	INDIANA.HUB	8:00	35.82
5/17/2014	DA LMP - Price	INDIANA.HUB	9:00	39
5/17/2014	DA LMP - Price	INDIANA.HUB	10:00	40.92
5/17/2014	DA LMP - Price	INDIANA.HUB	11:00	42.07
5/17/2014	DA LMP - Price	INDIANA.HUB	12:00	39.75
5/17/2014	DA LMP - Price	INDIANA.HUB	13:00	37.91
5/17/2014	DA LMP - Price	INDIANA.HUB	14:00	36.2
5/17/2014	DA LMP - Price	INDIANA.HUB	15:00	34.62
5/17/2014	DA LMP - Price	INDIANA.HUB	16:00	33.31
5/17/2014	DA LMP - Price	INDIANA.HUB	17:00	33.89
5/17/2014	DA LMP - Price	INDIANA.HUB	18:00	33.93
5/17/2014	DA LMP - Price	INDIANA.HUB	19:00	34.05
5/17/2014	DA LMP - Price	INDIANA.HUB	20:00	35.64
5/17/2014	DA LMP - Price	INDIANA.HUB	21:00	39.46
5/17/2014	DA LMP - Price	INDIANA.HUB	22:00	35.52
5/17/2014	DA LMP - Price	INDIANA.HUB	23:00	28.72
5/17/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.65
5/18/2014	DA LMP - Price	INDIANA.HUB	1:00	25.85
5/18/2014	DA LMP - Price	INDIANA.HUB	2:00	24.83
5/18/2014	DA LMP - Price	INDIANA.HUB	3:00	24.23
5/18/2014	DA LMP - Price	INDIANA.HUB	4:00	24
5/18/2014	DA LMP - Price	INDIANA.HUB	5:00	24.12
5/18/2014	DA LMP - Price	INDIANA.HUB	6:00	23.72
5/18/2014	DA LMP - Price	INDIANA.HUB	7:00	25.16
5/18/2014	DA LMP - Price	INDIANA.HUB	8:00	29.26
5/18/2014	DA LMP - Price	INDIANA.HUB	9:00	32.83
5/18/2014	DA LMP - Price	INDIANA.HUB	10:00	34.51
5/18/2014	DA LMP - Price	INDIANA.HUB	11:00	34.34
5/18/2014	DA LMP - Price	INDIANA.HUB	12:00	33.53
5/18/2014	DA LMP - Price	INDIANA.HUB	13:00	34.35
5/18/2014	DA LMP - Price	INDIANA.HUB	14:00	32.26
5/18/2014	DA LMP - Price	INDIANA.HUB	15:00	32.16
5/18/2014	DA LMP - Price	INDIANA.HUB	16:00	31.98
5/18/2014	DA LMP - Price	INDIANA.HUB	17:00	33.11
5/18/2014	DA LMP - Price	INDIANA.HUB	18:00	34.34
5/18/2014	DA LMP - Price	INDIANA.HUB	19:00	35.22
5/18/2014	DA LMP - Price	INDIANA.HUB	20:00	37.58
5/18/2014	DA LMP - Price	INDIANA.HUB	21:00	39.97
5/18/2014	DA LMP - Price	INDIANA.HUB	22:00	35.32
5/18/2014	DA LMP - Price	INDIANA.HUB	23:00	27.41
5/18/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.48

Trade Date	Price Type	Transaction Point	Per End	Price
5/19/2014	DA LMP - Price	INDIANA.HUB	1:00	23.49
5/19/2014	DA LMP - Price	INDIANA.HUB	2:00	22.77
5/19/2014	DA LMP - Price	INDIANA.HUB	3:00	22.96
5/19/2014	DA LMP - Price	INDIANA.HUB	4:00	23.53
5/19/2014	DA LMP - Price	INDIANA.HUB	5:00	25.13
5/19/2014	DA LMP - Price	INDIANA.HUB	6:00	33
5/19/2014	DA LMP - Price	INDIANA.HUB	7:00	36.84
5/19/2014	DA LMP - Price	INDIANA.HUB	8:00	39.06
5/19/2014	DA LMP - Price	INDIANA.HUB	9:00	42.62
5/19/2014	DA LMP - Price	INDIANA.HUB	10:00	44.18
5/19/2014	DA LMP - Price	INDIANA.HUB	11:00	44.06
5/19/2014	DA LMP - Price	INDIANA.HUB	12:00	42.41
5/19/2014	DA LMP - Price	INDIANA.HUB	13:00	42.66
5/19/2014	DA LMP - Price	INDIANA.HUB	14:00	42.81
5/19/2014	DA LMP - Price	INDIANA.HUB	15:00	42.48
5/19/2014	DA LMP - Price	INDIANA.HUB	16:00	43
5/19/2014	DA LMP - Price	INDIANA.HUB	17:00	41.29
5/19/2014	DA LMP - Price	INDIANA.HUB	18:00	40.09
5/19/2014	DA LMP - Price	INDIANA.HUB	19:00	38.71
5/19/2014	DA LMP - Price	INDIANA.HUB	20:00	41.26
5/19/2014	DA LMP - Price	INDIANA.HUB	21:00	42.52
5/19/2014	DA LMP - Price	INDIANA.HUB	22:00	36.39
5/19/2014	DA LMP - Price	INDIANA.HUB	23:00	28.15
5/19/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.61
5/20/2014	DA LMP - Price	INDIANA.HUB	1:00	23.73
5/20/2014	DA LMP - Price	INDIANA.HUB	2:00	21.96
5/20/2014	DA LMP - Price	INDIANA.HUB	3:00	21.74
5/20/2014	DA LMP - Price	INDIANA.HUB	4:00	21.64
5/20/2014	DA LMP - Price	INDIANA.HUB	5:00	23.5
5/20/2014	DA LMP - Price	INDIANA.HUB	6:00	29.26
5/20/2014	DA LMP - Price	INDIANA.HUB	7:00	34.96
5/20/2014	DA LMP - Price	INDIANA.HUB	8:00	36.65
5/20/2014	DA LMP - Price	INDIANA.HUB	9:00	39.4
5/20/2014	DA LMP - Price	INDIANA.HUB	10:00	42.14
5/20/2014	DA LMP - Price	INDIANA.HUB	11:00	44.41
5/20/2014	DA LMP - Price	INDIANA.HUB	12:00	45.45
5/20/2014	DA LMP - Price	INDIANA.HUB	13:00	46.58
5/20/2014	DA LMP - Price	INDIANA.HUB	14:00	47.75
5/20/2014	DA LMP - Price	INDIANA.HUB	15:00	50.15
5/20/2014	DA LMP - Price	INDIANA.HUB	16:00	50
5/20/2014	DA LMP - Price	INDIANA.HUB	17:00	48.85
5/20/2014	DA LMP - Price	INDIANA.HUB	18:00	47.41
5/20/2014	DA LMP - Price	INDIANA.HUB	19:00	44.78
5/20/2014	DA LMP - Price	INDIANA.HUB	20:00	45.01
5/20/2014	DA LMP - Price	INDIANA.HUB	21:00	45.39
5/20/2014	DA LMP - Price	INDIANA.HUB	22:00	38.43

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Trade Date	Price Type	Transaction Point	Per End	Price
5/20/2014	DA LMP - Price	INDIANA.HUB	23:00	32.38
5/20/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.08
5/21/2014	DA LMP - Price	INDIANA.HUB	1:00	27.85
5/21/2014	DA LMP - Price	INDIANA.HUB	2:00	26.16
5/21/2014	DA LMP - Price	INDIANA.HUB	3:00	26.02
5/21/2014	DA LMP - Price	INDIANA.HUB	4:00	26.57
5/21/2014	DA LMP - Price	INDIANA.HUB	5:00	27.79
5/21/2014	DA LMP - Price	INDIANA.HUB	6:00	34.95
5/21/2014	DA LMP - Price	INDIANA.HUB	7:00	36.79
5/21/2014	DA LMP - Price	INDIANA.HUB	8:00	42.14
5/21/2014	DA LMP - Price	INDIANA.HUB	9:00	44.19
5/21/2014	DA LMP - Price	INDIANA.HUB	10:00	47.93
5/21/2014	DA LMP - Price	INDIANA.HUB	11:00	50.98
5/21/2014	DA LMP - Price	INDIANA.HUB	12:00	53.5
5/21/2014	DA LMP - Price	INDIANA.HUB	13:00	55.68
5/21/2014	DA LMP - Price	INDIANA.HUB	14:00	60.36
5/21/2014	DA LMP - Price	INDIANA.HUB	15:00	61.09
5/21/2014	DA LMP - Price	INDIANA.HUB	16:00	59.93
5/21/2014	DA LMP - Price	INDIANA.HUB	17:00	58.39
5/21/2014	DA LMP - Price	INDIANA.HUB	18:00	53.37
5/21/2014	DA LMP - Price	INDIANA.HUB	19:00	51.5
5/21/2014	DA LMP - Price	INDIANA.HUB	20:00	49.22
5/21/2014	DA LMP - Price	INDIANA.HUB	21:00	52.44
5/21/2014	DA LMP - Price	INDIANA.HUB	22:00	41.36
5/21/2014	DA LMP - Price	INDIANA.HUB	23:00	33.17
5/21/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.86
5/22/2014	DA LMP - Price	INDIANA.HUB	1:00	26.9
5/22/2014	DA LMP - Price	INDIANA.HUB	2:00	25.93
5/22/2014	DA LMP - Price	INDIANA.HUB	3:00	25.76
5/22/2014	DA LMP - Price	INDIANA.HUB	4:00	25.35
5/22/2014	DA LMP - Price	INDIANA.HUB	5:00	26
5/22/2014	DA LMP - Price	INDIANA.HUB	6:00	32.13
5/22/2014	DA LMP - Price	INDIANA.HUB	7:00	37.33
5/22/2014	DA LMP - Price	INDIANA.HUB	8:00	40.7
5/22/2014	DA LMP - Price	INDIANA.HUB	9:00	42.45
5/22/2014	DA LMP - Price	INDIANA.HUB	10:00	45.08
5/22/2014	DA LMP - Price	INDIANA.HUB	11:00	47.27
5/22/2014	DA LMP - Price	INDIANA.HUB	12:00	46.87
5/22/2014	DA LMP - Price	INDIANA.HUB	13:00	45.81
5/22/2014	DA LMP - Price	INDIANA.HUB	14:00	45.47
5/22/2014	DA LMP - Price	INDIANA.HUB	15:00	44.41
5/22/2014	DA LMP - Price	INDIANA.HUB	16:00	45.13
5/22/2014	DA LMP - Price	INDIANA.HUB	17:00	44.32
5/22/2014	DA LMP - Price	INDIANA.HUB	18:00	43.31
5/22/2014	DA LMP - Price	INDIANA.HUB	19:00	41.33
5/22/2014	DA LMP - Price	INDIANA.HUB	20:00	41.94

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Trade Date	Price Type	Transaction Point	Per End	Price
5/22/2014	DA LMP - Price	INDIANA.HUB	21:00	44.94
5/22/2014	DA LMP - Price	INDIANA.HUB	22:00	40.36
5/22/2014	DA LMP - Price	INDIANA.HUB	23:00	32.66
5/22/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.13
5/23/2014	DA LMP - Price	INDIANA.HUB	1:00	25.61
5/23/2014	DA LMP - Price	INDIANA.HUB	2:00	23.9
5/23/2014	DA LMP - Price	INDIANA.HUB	3:00	23.73
5/23/2014	DA LMP - Price	INDIANA.HUB	4:00	23.62
5/23/2014	DA LMP - Price	INDIANA.HUB	5:00	25.34
5/23/2014	DA LMP - Price	INDIANA.HUB	6:00	29.76
5/23/2014	DA LMP - Price	INDIANA.HUB	7:00	38.12
5/23/2014	DA LMP - Price	INDIANA.HUB	8:00	38.14
5/23/2014	DA LMP - Price	INDIANA.HUB	9:00	39.68
5/23/2014	DA LMP - Price	INDIANA.HUB	10:00	40.29
5/23/2014	DA LMP - Price	INDIANA.HUB	11:00	44.78
5/23/2014	DA LMP - Price	INDIANA.HUB	12:00	44.37
5/23/2014	DA LMP - Price	INDIANA.HUB	13:00	44.21
5/23/2014	DA LMP - Price	INDIANA.HUB	14:00	44.18
5/23/2014	DA LMP - Price	INDIANA.HUB	15:00	42.49
5/23/2014	DA LMP - Price	INDIANA.HUB	16:00	42.71
5/23/2014	DA LMP - Price	INDIANA.HUB	17:00	42
5/23/2014	DA LMP - Price	INDIANA.HUB	18:00	39.22
5/23/2014	DA LMP - Price	INDIANA.HUB	19:00	36.97
5/23/2014	DA LMP - Price	INDIANA.HUB	20:00	37.3
5/23/2014	DA LMP - Price	INDIANA.HUB	21:00	39.84
5/23/2014	DA LMP - Price	INDIANA.HUB	22:00	35.83
5/23/2014	DA LMP - Price	INDIANA.HUB	23:00	30.58
5/23/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.69
5/24/2014	DA LMP - Price	INDIANA.HUB	1:00	25.77
5/24/2014	DA LMP - Price	INDIANA.HUB	2:00	24.69
5/24/2014	DA LMP - Price	INDIANA.HUB	3:00	24.18
5/24/2014	DA LMP - Price	INDIANA.HUB	4:00	23.72
5/24/2014	DA LMP - Price	INDIANA.HUB	5:00	23.72
5/24/2014	DA LMP - Price	INDIANA.HUB	6:00	24.2
5/24/2014	DA LMP - Price	INDIANA.HUB	7:00	27.46
5/24/2014	DA LMP - Price	INDIANA.HUB	8:00	30.55
5/24/2014	DA LMP - Price	INDIANA.HUB	9:00	35.44
5/24/2014	DA LMP - Price	INDIANA.HUB	10:00	37.5
5/24/2014	DA LMP - Price	INDIANA.HUB	11:00	38.23
5/24/2014	DA LMP - Price	INDIANA.HUB	12:00	38.11
5/24/2014	DA LMP - Price	INDIANA.HUB	13:00	37.91
5/24/2014	DA LMP - Price	INDIANA.HUB	14:00	37.26
5/24/2014	DA LMP - Price	INDIANA.HUB	15:00	37.26
5/24/2014	DA LMP - Price	INDIANA.HUB	16:00	37.78
5/24/2014	DA LMP - Price	INDIANA.HUB	17:00	37.2
5/24/2014	DA LMP - Price	INDIANA.HUB	18:00	37.13

Trade Date	Price Type	Transaction Point	Per End	Price
5/24/2014	DA LMP - Price	INDIANA.HUB	19:00	37.01
5/24/2014	DA LMP - Price	INDIANA.HUB	20:00	36.07
5/24/2014	DA LMP - Price	INDIANA.HUB	21:00	37.73
5/24/2014	DA LMP - Price	INDIANA.HUB	22:00	33.62
5/24/2014	DA LMP - Price	INDIANA.HUB	23:00	25.8
5/24/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.25
5/25/2014	DA LMP - Price	INDIANA.HUB	1:00	23.35
5/25/2014	DA LMP - Price	INDIANA.HUB	2:00	22.13
5/25/2014	DA LMP - Price	INDIANA.HUB	3:00	21.9
5/25/2014	DA LMP - Price	INDIANA.HUB	4:00	20.13
5/25/2014	DA LMP - Price	INDIANA.HUB	5:00	20.05
5/25/2014	DA LMP - Price	INDIANA.HUB	6:00	19.68
5/25/2014	DA LMP - Price	INDIANA.HUB	7:00	23.45
5/25/2014	DA LMP - Price	INDIANA.HUB	8:00	25.5
5/25/2014	DA LMP - Price	INDIANA.HUB	9:00	29.98
5/25/2014	DA LMP - Price	INDIANA.HUB	10:00	32.46
5/25/2014	DA LMP - Price	INDIANA.HUB	11:00	33.26
5/25/2014	DA LMP - Price	INDIANA.HUB	12:00	33.49
5/25/2014	DA LMP - Price	INDIANA.HUB	13:00	32.3
5/25/2014	DA LMP - Price	INDIANA.HUB	14:00	32.24
5/25/2014	DA LMP - Price	INDIANA.HUB	15:00	32.73
5/25/2014	DA LMP - Price	INDIANA.HUB	16:00	33.54
5/25/2014	DA LMP - Price	INDIANA.HUB	17:00	34.66
5/25/2014	DA LMP - Price	INDIANA.HUB	18:00	33.81
5/25/2014	DA LMP - Price	INDIANA.HUB	19:00	34.27
5/25/2014	DA LMP - Price	INDIANA.HUB	20:00	34.86
5/25/2014	DA LMP - Price	INDIANA.HUB	21:00	38.07
5/25/2014	DA LMP - Price	INDIANA.HUB	22:00	33.58
5/25/2014	DA LMP - Price	INDIANA.HUB	23:00	27.61
5/25/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.64
5/26/2014	DA LMP - Price	INDIANA.HUB	1:00	27.4
5/26/2014	DA LMP - Price	INDIANA.HUB	2:00	25.73
5/26/2014	DA LMP - Price	INDIANA.HUB	3:00	24.85
5/26/2014	DA LMP - Price	INDIANA.HUB	4:00	23.43
5/26/2014	DA LMP - Price	INDIANA.HUB	5:00	24.11
5/26/2014	DA LMP - Price	INDIANA.HUB	6:00	25.07
5/26/2014	DA LMP - Price	INDIANA.HUB	7:00	26.07
5/26/2014	DA LMP - Price	INDIANA.HUB	8:00	28.81
5/26/2014	DA LMP - Price	INDIANA.HUB	9:00	34.68
5/26/2014	DA LMP - Price	INDIANA.HUB	10:00	37.11
5/26/2014	DA LMP - Price	INDIANA.HUB	11:00	38.57
5/26/2014	DA LMP - Price	INDIANA.HUB	12:00	42.33
5/26/2014	DA LMP - Price	INDIANA.HUB	13:00	44.45
5/26/2014	DA LMP - Price	INDIANA.HUB	14:00	44.44
5/26/2014	DA LMP - Price	INDIANA.HUB	15:00	44.92
5/26/2014	DA LMP - Price	INDIANA.HUB	16:00	43.57

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Trade Date	Price Type	Transaction Point	Per End	Price
5/26/2014	DA LMP - Price	INDIANA.HUB	17:00	44
5/26/2014	DA LMP - Price	INDIANA.HUB	18:00	46.78
5/26/2014	DA LMP - Price	INDIANA.HUB	19:00	43.17
5/26/2014	DA LMP - Price	INDIANA.HUB	20:00	41.73
5/26/2014	DA LMP - Price	INDIANA.HUB	21:00	44.33
5/26/2014	DA LMP - Price	INDIANA.HUB	22:00	39.51
5/26/2014	DA LMP - Price	INDIANA.HUB	23:00	29.42
5/26/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.31
5/27/2014	DA LMP - Price	INDIANA.HUB	1:00	28.08
5/27/2014	DA LMP - Price	INDIANA.HUB	2:00	26.21
5/27/2014	DA LMP - Price	INDIANA.HUB	3:00	26.77
5/27/2014	DA LMP - Price	INDIANA.HUB	4:00	25.95
5/27/2014	DA LMP - Price	INDIANA.HUB	5:00	27.14
5/27/2014	DA LMP - Price	INDIANA.HUB	6:00	33.49
5/27/2014	DA LMP - Price	INDIANA.HUB	7:00	44.11
5/27/2014	DA LMP - Price	INDIANA.HUB	8:00	46.77
5/27/2014	DA LMP - Price	INDIANA.HUB	9:00	49.83
5/27/2014	DA LMP - Price	INDIANA.HUB	10:00	56
5/27/2014	DA LMP - Price	INDIANA.HUB	11:00	65.24
5/27/2014	DA LMP - Price	INDIANA.HUB	12:00	62.9
5/27/2014	DA LMP - Price	INDIANA.HUB	13:00	65.27
5/27/2014	DA LMP - Price	INDIANA.HUB	14:00	70.95
5/27/2014	DA LMP - Price	INDIANA.HUB	15:00	70.5
5/27/2014	DA LMP - Price	INDIANA.HUB	16:00	70.2
5/27/2014	DA LMP - Price	INDIANA.HUB	17:00	66.77
5/27/2014	DA LMP - Price	INDIANA.HUB	18:00	64.25
5/27/2014	DA LMP - Price	INDIANA.HUB	19:00	59.89
5/27/2014	DA LMP - Price	INDIANA.HUB	20:00	58.6
5/27/2014	DA LMP - Price	INDIANA.HUB	21:00	58.84
5/27/2014	DA LMP - Price	INDIANA.HUB	22:00	51.64
5/27/2014	DA LMP - Price	INDIANA.HUB	23:00	35.96
5/27/2014	DA LMP - Price	INDIANA.HUB	24:00:00	33.15
5/28/2014	DA LMP - Price	INDIANA.HUB	1:00	29.39
5/28/2014	DA LMP - Price	INDIANA.HUB	2:00	25.96
5/28/2014	DA LMP - Price	INDIANA.HUB	3:00	26.1
5/28/2014	DA LMP - Price	INDIANA.HUB	4:00	26
5/28/2014	DA LMP - Price	INDIANA.HUB	5:00	26.17
5/28/2014	DA LMP - Price	INDIANA.HUB	6:00	30.79
5/28/2014	DA LMP - Price	INDIANA.HUB	7:00	40.61
5/28/2014	DA LMP - Price	INDIANA.HUB	8:00	42.71
5/28/2014	DA LMP - Price	INDIANA.HUB	9:00	44.93
5/28/2014	DA LMP - Price	INDIANA.HUB	10:00	49.95
5/28/2014	DA LMP - Price	INDIANA.HUB	11:00	52.91
5/28/2014	DA LMP - Price	INDIANA.HUB	12:00	53.54
5/28/2014	DA LMP - Price	INDIANA.HUB	13:00	57.97
5/28/2014	DA LMP - Price	INDIANA.HUB	14:00	67.51

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Trade Date	Price Type	Transaction Point	Per End	Price
5/28/2014	DA LMP - Price	INDIANA.HUB	15:00	62.92
5/28/2014	DA LMP - Price	INDIANA.HUB	16:00	61.45
5/28/2014	DA LMP - Price	INDIANA.HUB	17:00	59.76
5/28/2014	DA LMP - Price	INDIANA.HUB	18:00	52.97
5/28/2014	DA LMP - Price	INDIANA.HUB	19:00	49.69
5/28/2014	DA LMP - Price	INDIANA.HUB	20:00	46.43
5/28/2014	DA LMP - Price	INDIANA.HUB	21:00	52.33
5/28/2014	DA LMP - Price	INDIANA.HUB	22:00	40.07
5/28/2014	DA LMP - Price	INDIANA.HUB	23:00	31.95
5/28/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.78
5/29/2014	DA LMP - Price	INDIANA.HUB	1:00	27.96
5/29/2014	DA LMP - Price	INDIANA.HUB	2:00	26.12
5/29/2014	DA LMP - Price	INDIANA.HUB	3:00	25.8
5/29/2014	DA LMP - Price	INDIANA.HUB	4:00	25.93
5/29/2014	DA LMP - Price	INDIANA.HUB	5:00	26.04
5/29/2014	DA LMP - Price	INDIANA.HUB	6:00	31.89
5/29/2014	DA LMP - Price	INDIANA.HUB	7:00	37.13
5/29/2014	DA LMP - Price	INDIANA.HUB	8:00	36.85
5/29/2014	DA LMP - Price	INDIANA.HUB	9:00	40.14
5/29/2014	DA LMP - Price	INDIANA.HUB	10:00	44.22
5/29/2014	DA LMP - Price	INDIANA.HUB	11:00	48.44
5/29/2014	DA LMP - Price	INDIANA.HUB	12:00	49.39
5/29/2014	DA LMP - Price	INDIANA.HUB	13:00	51.11
5/29/2014	DA LMP - Price	INDIANA.HUB	14:00	55.46
5/29/2014	DA LMP - Price	INDIANA.HUB	15:00	55.85
5/29/2014	DA LMP - Price	INDIANA.HUB	16:00	55.52
5/29/2014	DA LMP - Price	INDIANA.HUB	17:00	54.47
5/29/2014	DA LMP - Price	INDIANA.HUB	18:00	46.98
5/29/2014	DA LMP - Price	INDIANA.HUB	19:00	43.59
5/29/2014	DA LMP - Price	INDIANA.HUB	20:00	42.41
5/29/2014	DA LMP - Price	INDIANA.HUB	21:00	44
5/29/2014	DA LMP - Price	INDIANA.HUB	22:00	37.64
5/29/2014	DA LMP - Price	INDIANA.HUB	23:00	32.57
5/29/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.64
5/30/2014	DA LMP - Price	INDIANA.HUB	1:00	25.92
5/30/2014	DA LMP - Price	INDIANA.HUB	2:00	23.57
5/30/2014	DA LMP - Price	INDIANA.HUB	3:00	22.74
5/30/2014	DA LMP - Price	INDIANA.HUB	4:00	21.71
5/30/2014	DA LMP - Price	INDIANA.HUB	5:00	24.17
5/30/2014	DA LMP - Price	INDIANA.HUB	6:00	26.64
5/30/2014	DA LMP - Price	INDIANA.HUB	7:00	34.19
5/30/2014	DA LMP - Price	INDIANA.HUB	8:00	35.66
5/30/2014	DA LMP - Price	INDIANA.HUB	9:00	36.8
5/30/2014	DA LMP - Price	INDIANA.HUB	10:00	39.72
5/30/2014	DA LMP - Price	INDIANA.HUB	11:00	42.52
5/30/2014	DA LMP - Price	INDIANA.HUB	12:00	46.11

Trade Date	Price Type	Transaction Point	Per End	Price
5/30/2014	DA LMP - Price	INDIANA.HUB	13:00	46.45
5/30/2014	DA LMP - Price	INDIANA.HUB	14:00	48.73
5/30/2014	DA LMP - Price	INDIANA.HUB	15:00	49.26
5/30/2014	DA LMP - Price	INDIANA.HUB	16:00	50.05
5/30/2014	DA LMP - Price	INDIANA.HUB	17:00	46.98
5/30/2014	DA LMP - Price	INDIANA.HUB	18:00	41.85
5/30/2014	DA LMP - Price	INDIANA.HUB	19:00	40.33
5/30/2014	DA LMP - Price	INDIANA.HUB	20:00	37.99
5/30/2014	DA LMP - Price	INDIANA.HUB	21:00	37.76
5/30/2014	DA LMP - Price	INDIANA.HUB	22:00	34.1
5/30/2014	DA LMP - Price	INDIANA.HUB	23:00	27.35
5/30/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.18
5/31/2014	DA LMP - Price	INDIANA.HUB	1:00	26.18
5/31/2014	DA LMP - Price	INDIANA.HUB	2:00	24.38
5/31/2014	DA LMP - Price	INDIANA.HUB	3:00	23.65
5/31/2014	DA LMP - Price	INDIANA.HUB	4:00	22.52
5/31/2014	DA LMP - Price	INDIANA.HUB	5:00	22.29
5/31/2014	DA LMP - Price	INDIANA.HUB	6:00	23.36
5/31/2014	DA LMP - Price	INDIANA.HUB	7:00	26.62
5/31/2014	DA LMP - Price	INDIANA.HUB	8:00	34.08
5/31/2014	DA LMP - Price	INDIANA.HUB	9:00	37.12
5/31/2014	DA LMP - Price	INDIANA.HUB	10:00	40.19
5/31/2014	DA LMP - Price	INDIANA.HUB	11:00	44.24
5/31/2014	DA LMP - Price	INDIANA.HUB	12:00	46.22
5/31/2014	DA LMP - Price	INDIANA.HUB	13:00	45.52
5/31/2014	DA LMP - Price	INDIANA.HUB	14:00	45.81
5/31/2014	DA LMP - Price	INDIANA.HUB	15:00	47.77
5/31/2014	DA LMP - Price	INDIANA.HUB	16:00	46.27
5/31/2014	DA LMP - Price	INDIANA.HUB	17:00	46.03
5/31/2014	DA LMP - Price	INDIANA.HUB	18:00	44.96
5/31/2014	DA LMP - Price	INDIANA.HUB	19:00	42.29
5/31/2014	DA LMP - Price	INDIANA.HUB	20:00	42.91
5/31/2014	DA LMP - Price	INDIANA.HUB	21:00	40.47
5/31/2014	DA LMP - Price	INDIANA.HUB	22:00	34.12
5/31/2014	DA LMP - Price	INDIANA.HUB	23:00	27.15
5/31/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.51
6/1/2014	DA LMP - Price	INDIANA.HUB	1:00	26.1
6/1/2014	DA LMP - Price	INDIANA.HUB	2:00	22.72
6/1/2014	DA LMP - Price	INDIANA.HUB	3:00	21.85
6/1/2014	DA LMP - Price	INDIANA.HUB	4:00	20.46
6/1/2014	DA LMP - Price	INDIANA.HUB	5:00	20.88
6/1/2014	DA LMP - Price	INDIANA.HUB	6:00	20.43
6/1/2014	DA LMP - Price	INDIANA.HUB	7:00	23.35
6/1/2014	DA LMP - Price	INDIANA.HUB	8:00	27.54
6/1/2014	DA LMP - Price	INDIANA.HUB	9:00	31.13
6/1/2014	DA LMP - Price	INDIANA.HUB	10:00	33.95

Trade Date	Price Type	Transaction Point	Per End	Price
6/1/2014	DA LMP - Price	INDIANA.HUB	11:00	35.16
6/1/2014	DA LMP - Price	INDIANA.HUB	12:00	37.13
6/1/2014	DA LMP - Price	INDIANA.HUB	13:00	39.43
6/1/2014	DA LMP - Price	INDIANA.HUB	14:00	40.46
6/1/2014	DA LMP - Price	INDIANA.HUB	15:00	41.78
6/1/2014	DA LMP - Price	INDIANA.HUB	16:00	43.48
6/1/2014	DA LMP - Price	INDIANA.HUB	17:00	46.66
6/1/2014	DA LMP - Price	INDIANA.HUB	18:00	48.02
6/1/2014	DA LMP - Price	INDIANA.HUB	19:00	47.09
6/1/2014	DA LMP - Price	INDIANA.HUB	20:00	43.71
6/1/2014	DA LMP - Price	INDIANA.HUB	21:00	43.15
6/1/2014	DA LMP - Price	INDIANA.HUB	22:00	36.97
6/1/2014	DA LMP - Price	INDIANA.HUB	23:00	29.41
6/1/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.42
6/2/2014	DA LMP - Price	INDIANA.HUB	1:00	25.56
6/2/2014	DA LMP - Price	INDIANA.HUB	2:00	23.81
6/2/2014	DA LMP - Price	INDIANA.HUB	3:00	22.36
6/2/2014	DA LMP - Price	INDIANA.HUB	4:00	22.53
6/2/2014	DA LMP - Price	INDIANA.HUB	5:00	24.21
6/2/2014	DA LMP - Price	INDIANA.HUB	6:00	27.76
6/2/2014	DA LMP - Price	INDIANA.HUB	7:00	36.51
6/2/2014	DA LMP - Price	INDIANA.HUB	8:00	37.49
6/2/2014	DA LMP - Price	INDIANA.HUB	9:00	39.38
6/2/2014	DA LMP - Price	INDIANA.HUB	10:00	42.87
6/2/2014	DA LMP - Price	INDIANA.HUB	11:00	45
6/2/2014	DA LMP - Price	INDIANA.HUB	12:00	50.62
6/2/2014	DA LMP - Price	INDIANA.HUB	13:00	53.84
6/2/2014	DA LMP - Price	INDIANA.HUB	14:00	55.5
6/2/2014	DA LMP - Price	INDIANA.HUB	15:00	57.5
6/2/2014	DA LMP - Price	INDIANA.HUB	16:00	56.32
6/2/2014	DA LMP - Price	INDIANA.HUB	17:00	52.42
6/2/2014	DA LMP - Price	INDIANA.HUB	18:00	49.42
6/2/2014	DA LMP - Price	INDIANA.HUB	19:00	45.31
6/2/2014	DA LMP - Price	INDIANA.HUB	20:00	42.33
6/2/2014	DA LMP - Price	INDIANA.HUB	21:00	41.34
6/2/2014	DA LMP - Price	INDIANA.HUB	22:00	36.25
6/2/2014	DA LMP - Price	INDIANA.HUB	23:00	31.21
6/2/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.52
6/3/2014	DA LMP - Price	INDIANA.HUB	1:00	27.86
6/3/2014	DA LMP - Price	INDIANA.HUB	2:00	25.48
6/3/2014	DA LMP - Price	INDIANA.HUB	3:00	24.58
6/3/2014	DA LMP - Price	INDIANA.HUB	4:00	23.95
6/3/2014	DA LMP - Price	INDIANA.HUB	5:00	26.38
6/3/2014	DA LMP - Price	INDIANA.HUB	6:00	31.25
6/3/2014	DA LMP - Price	INDIANA.HUB	7:00	40.15
6/3/2014	DA LMP - Price	INDIANA.HUB	8:00	42.73

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Trade Date	Price Type	Transaction Point	Per End	Price
6/3/2014	DA LMP - Price	INDIANA.HUB	9:00	46.77
6/3/2014	DA LMP - Price	INDIANA.HUB	10:00	50.99
6/3/2014	DA LMP - Price	INDIANA.HUB	11:00	54.31
6/3/2014	DA LMP - Price	INDIANA.HUB	12:00	59.79
6/3/2014	DA LMP - Price	INDIANA.HUB	13:00	65.82
6/3/2014	DA LMP - Price	INDIANA.HUB	14:00	79.68
6/3/2014	DA LMP - Price	INDIANA.HUB	15:00	82.08
6/3/2014	DA LMP - Price	INDIANA.HUB	16:00	73.98
6/3/2014	DA LMP - Price	INDIANA.HUB	17:00	70.13
6/3/2014	DA LMP - Price	INDIANA.HUB	18:00	58.46
6/3/2014	DA LMP - Price	INDIANA.HUB	19:00	52.77
6/3/2014	DA LMP - Price	INDIANA.HUB	20:00	49.09
6/3/2014	DA LMP - Price	INDIANA.HUB	21:00	49.95
6/3/2014	DA LMP - Price	INDIANA.HUB	22:00	41.13
6/3/2014	DA LMP - Price	INDIANA.HUB	23:00	31.65
6/3/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.04
6/4/2014	DA LMP - Price	INDIANA.HUB	1:00	26.15
6/4/2014	DA LMP - Price	INDIANA.HUB	2:00	23.03
6/4/2014	DA LMP - Price	INDIANA.HUB	3:00	22.38
6/4/2014	DA LMP - Price	INDIANA.HUB	4:00	20.82
6/4/2014	DA LMP - Price	INDIANA.HUB	5:00	22.96
6/4/2014	DA LMP - Price	INDIANA.HUB	6:00	25.67
6/4/2014	DA LMP - Price	INDIANA.HUB	7:00	33.85
6/4/2014	DA LMP - Price	INDIANA.HUB	8:00	36.48
6/4/2014	DA LMP - Price	INDIANA.HUB	9:00	38.28
6/4/2014	DA LMP - Price	INDIANA.HUB	10:00	41.06
6/4/2014	DA LMP - Price	INDIANA.HUB	11:00	42.61
6/4/2014	DA LMP - Price	INDIANA.HUB	12:00	48.04
6/4/2014	DA LMP - Price	INDIANA.HUB	13:00	52.58
6/4/2014	DA LMP - Price	INDIANA.HUB	14:00	49.9
6/4/2014	DA LMP - Price	INDIANA.HUB	15:00	49.68
6/4/2014	DA LMP - Price	INDIANA.HUB	16:00	49.56
6/4/2014	DA LMP - Price	INDIANA.HUB	17:00	47.82
6/4/2014	DA LMP - Price	INDIANA.HUB	18:00	46.64
6/4/2014	DA LMP - Price	INDIANA.HUB	19:00	42.21
6/4/2014	DA LMP - Price	INDIANA.HUB	20:00	41.57
6/4/2014	DA LMP - Price	INDIANA.HUB	21:00	41.62
6/4/2014	DA LMP - Price	INDIANA.HUB	22:00	37.5
6/4/2014	DA LMP - Price	INDIANA.HUB	23:00	31.14
6/4/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.46
6/5/2014	DA LMP - Price	INDIANA.HUB	1:00	22.81
6/5/2014	DA LMP - Price	INDIANA.HUB	2:00	21.25
6/5/2014	DA LMP - Price	INDIANA.HUB	3:00	20.11
6/5/2014	DA LMP - Price	INDIANA.HUB	4:00	20.06
6/5/2014	DA LMP - Price	INDIANA.HUB	5:00	21.92
6/5/2014	DA LMP - Price	INDIANA.HUB	6:00	24.64

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Trade Date	Price Type	Transaction Point	Per End	Price
6/5/2014	DA LMP - Price	INDIANA.HUB	7:00	31.23
6/5/2014	DA LMP - Price	INDIANA.HUB	8:00	31.51
6/5/2014	DA LMP - Price	INDIANA.HUB	9:00	33.88
6/5/2014	DA LMP - Price	INDIANA.HUB	10:00	35.53
6/5/2014	DA LMP - Price	INDIANA.HUB	11:00	37
6/5/2014	DA LMP - Price	INDIANA.HUB	12:00	40.17
6/5/2014	DA LMP - Price	INDIANA.HUB	13:00	42.59
6/5/2014	DA LMP - Price	INDIANA.HUB	14:00	39.35
6/5/2014	DA LMP - Price	INDIANA.HUB	15:00	39.31
6/5/2014	DA LMP - Price	INDIANA.HUB	16:00	40.66
6/5/2014	DA LMP - Price	INDIANA.HUB	17:00	39.44
6/5/2014	DA LMP - Price	INDIANA.HUB	18:00	39.73
6/5/2014	DA LMP - Price	INDIANA.HUB	19:00	36.46
6/5/2014	DA LMP - Price	INDIANA.HUB	20:00	34.94
6/5/2014	DA LMP - Price	INDIANA.HUB	21:00	37.31
6/5/2014	DA LMP - Price	INDIANA.HUB	22:00	33.29
6/5/2014	DA LMP - Price	INDIANA.HUB	23:00	27.08
6/5/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.68
6/6/2014	DA LMP - Price	INDIANA.HUB	1:00	22.86
6/6/2014	DA LMP - Price	INDIANA.HUB	2:00	20.78
6/6/2014	DA LMP - Price	INDIANA.HUB	3:00	19.96
6/6/2014	DA LMP - Price	INDIANA.HUB	4:00	20
6/6/2014	DA LMP - Price	INDIANA.HUB	5:00	21.59
6/6/2014	DA LMP - Price	INDIANA.HUB	6:00	24.77
6/6/2014	DA LMP - Price	INDIANA.HUB	7:00	30.74
6/6/2014	DA LMP - Price	INDIANA.HUB	8:00	33.5
6/6/2014	DA LMP - Price	INDIANA.HUB	9:00	36.52
6/6/2014	DA LMP - Price	INDIANA.HUB	10:00	38.09
6/6/2014	DA LMP - Price	INDIANA.HUB	11:00	38.66
6/6/2014	DA LMP - Price	INDIANA.HUB	12:00	40.69
6/6/2014	DA LMP - Price	INDIANA.HUB	13:00	41.76
6/6/2014	DA LMP - Price	INDIANA.HUB	14:00	43.29
6/6/2014	DA LMP - Price	INDIANA.HUB	15:00	45.01
6/6/2014	DA LMP - Price	INDIANA.HUB	16:00	43.01
6/6/2014	DA LMP - Price	INDIANA.HUB	17:00	43.38
6/6/2014	DA LMP - Price	INDIANA.HUB	18:00	39.61
6/6/2014	DA LMP - Price	INDIANA.HUB	19:00	40.13
6/6/2014	DA LMP - Price	INDIANA.HUB	20:00	39.41
6/6/2014	DA LMP - Price	INDIANA.HUB	21:00	38.49
6/6/2014	DA LMP - Price	INDIANA.HUB	22:00	34.93
6/6/2014	DA LMP - Price	INDIANA.HUB	23:00	27.85
6/6/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.41
6/7/2014	DA LMP - Price	INDIANA.HUB	1:00	22.8
6/7/2014	DA LMP - Price	INDIANA.HUB	2:00	18.97
6/7/2014	DA LMP - Price	INDIANA.HUB	3:00	17.66
6/7/2014	DA LMP - Price	INDIANA.HUB	4:00	17.49

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Trade Date	Price Type	Transaction Point	Per End	Price
6/7/2014	DA LMP - Price	INDIANA.HUB	5:00	18.28
6/7/2014	DA LMP - Price	INDIANA.HUB	6:00	19.11
6/7/2014	DA LMP - Price	INDIANA.HUB	7:00	20.82
6/7/2014	DA LMP - Price	INDIANA.HUB	8:00	24.11
6/7/2014	DA LMP - Price	INDIANA.HUB	9:00	29.71
6/7/2014	DA LMP - Price	INDIANA.HUB	10:00	34.32
6/7/2014	DA LMP - Price	INDIANA.HUB	11:00	35.94
6/7/2014	DA LMP - Price	INDIANA.HUB	12:00	37.94
6/7/2014	DA LMP - Price	INDIANA.HUB	13:00	38.37
6/7/2014	DA LMP - Price	INDIANA.HUB	14:00	41.17
6/7/2014	DA LMP - Price	INDIANA.HUB	15:00	40.57
6/7/2014	DA LMP - Price	INDIANA.HUB	16:00	43.83
6/7/2014	DA LMP - Price	INDIANA.HUB	17:00	44.44
6/7/2014	DA LMP - Price	INDIANA.HUB	18:00	42.67
6/7/2014	DA LMP - Price	INDIANA.HUB	19:00	35.16
6/7/2014	DA LMP - Price	INDIANA.HUB	20:00	35.57
6/7/2014	DA LMP - Price	INDIANA.HUB	21:00	35.14
6/7/2014	DA LMP - Price	INDIANA.HUB	22:00	31.23
6/7/2014	DA LMP - Price	INDIANA.HUB	23:00	26
6/7/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.82
6/8/2014	DA LMP - Price	INDIANA.HUB	1:00	21.39
6/8/2014	DA LMP - Price	INDIANA.HUB	2:00	19.78
6/8/2014	DA LMP - Price	INDIANA.HUB	3:00	17.8
6/8/2014	DA LMP - Price	INDIANA.HUB	4:00	17.02
6/8/2014	DA LMP - Price	INDIANA.HUB	5:00	16.76
6/8/2014	DA LMP - Price	INDIANA.HUB	6:00	17
6/8/2014	DA LMP - Price	INDIANA.HUB	7:00	20.32
6/8/2014	DA LMP - Price	INDIANA.HUB	8:00	26.45
6/8/2014	DA LMP - Price	INDIANA.HUB	9:00	28.89
6/8/2014	DA LMP - Price	INDIANA.HUB	10:00	30.98
6/8/2014	DA LMP - Price	INDIANA.HUB	11:00	33.72
6/8/2014	DA LMP - Price	INDIANA.HUB	12:00	34.53
6/8/2014	DA LMP - Price	INDIANA.HUB	13:00	34.41
6/8/2014	DA LMP - Price	INDIANA.HUB	14:00	35.37
6/8/2014	DA LMP - Price	INDIANA.HUB	15:00	35.99
6/8/2014	DA LMP - Price	INDIANA.HUB	16:00	36.64
6/8/2014	DA LMP - Price	INDIANA.HUB	17:00	38
6/8/2014	DA LMP - Price	INDIANA.HUB	18:00	37.19
6/8/2014	DA LMP - Price	INDIANA.HUB	19:00	36.21
6/8/2014	DA LMP - Price	INDIANA.HUB	20:00	37.08
6/8/2014	DA LMP - Price	INDIANA.HUB	21:00	35.8
6/8/2014	DA LMP - Price	INDIANA.HUB	22:00	34.24
6/8/2014	DA LMP - Price	INDIANA.HUB	23:00	26.96
6/8/2014	DA LMP - Price	INDIANA.HUB	24:00:00	24.69
6/9/2014	DA LMP - Price	INDIANA.HUB	1:00	19.28
6/9/2014	DA LMP - Price	INDIANA.HUB	2:00	14.78

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Trade Date	Price Type	Transaction Poin	Per End	Price
6/9/2014	DA LMP - Price	INDIANA.HUB	3:00	13.33
6/9/2014	DA LMP - Price	INDIANA.HUB	4:00	14.15
6/9/2014	DA LMP - Price	INDIANA.HUB	5:00	17.63
6/9/2014	DA LMP - Price	INDIANA.HUB	6:00	20.29
6/9/2014	DA LMP - Price	INDIANA.HUB	7:00	24.46
6/9/2014	DA LMP - Price	INDIANA.HUB	8:00	31.11
6/9/2014	DA LMP - Price	INDIANA.HUB	9:00	31.51
6/9/2014	DA LMP - Price	INDIANA.HUB	10:00	35.62
6/9/2014	DA LMP - Price	INDIANA.HUB	11:00	38.38
6/9/2014	DA LMP - Price	INDIANA.HUB	12:00	38.5
6/9/2014	DA LMP - Price	INDIANA.HUB	13:00	40.4
6/9/2014	DA LMP - Price	INDIANA.HUB	14:00	42.16
6/9/2014	DA LMP - Price	INDIANA.HUB	15:00	42.69
6/9/2014	DA LMP - Price	INDIANA.HUB	16:00	41.66
6/9/2014	DA LMP - Price	INDIANA.HUB	17:00	41.27
6/9/2014	DA LMP - Price	INDIANA.HUB	18:00	38.32
6/9/2014	DA LMP - Price	INDIANA.HUB	19:00	35.96
6/9/2014	DA LMP - Price	INDIANA.HUB	20:00	37
6/9/2014	DA LMP - Price	INDIANA.HUB	21:00	36.89
6/9/2014	DA LMP - Price	INDIANA.HUB	22:00	32.02
6/9/2014	DA LMP - Price	INDIANA.HUB	23:00	26.42
6/9/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.03
6/10/2014	DA LMP - Price	INDIANA.HUB	1:00	21.89
6/10/2014	DA LMP - Price	INDIANA.HUB	2:00	19.29
6/10/2014	DA LMP - Price	INDIANA.HUB	3:00	18.14
6/10/2014	DA LMP - Price	INDIANA.HUB	4:00	18.76
6/10/2014	DA LMP - Price	INDIANA.HUB	5:00	20.18
6/10/2014	DA LMP - Price	INDIANA.HUB	6:00	24.29
6/10/2014	DA LMP - Price	INDIANA.HUB	7:00	30.71
6/10/2014	DA LMP - Price	INDIANA.HUB	8:00	32.39
6/10/2014	DA LMP - Price	INDIANA.HUB	9:00	36.4
6/10/2014	DA LMP - Price	INDIANA.HUB	10:00	39.76
6/10/2014	DA LMP - Price	INDIANA.HUB	11:00	41.95
6/10/2014	DA LMP - Price	INDIANA.HUB	12:00	43.68
6/10/2014	DA LMP - Price	INDIANA.HUB	13:00	43.98
6/10/2014	DA LMP - Price	INDIANA.HUB	14:00	45.62
6/10/2014	DA LMP - Price	INDIANA.HUB	15:00	45.05
6/10/2014	DA LMP - Price	INDIANA.HUB	16:00	45.04
6/10/2014	DA LMP - Price	INDIANA.HUB	17:00	44.77
6/10/2014	DA LMP - Price	INDIANA.HUB	18:00	42.58
6/10/2014	DA LMP - Price	INDIANA.HUB	19:00	40.88
6/10/2014	DA LMP - Price	INDIANA.HUB	20:00	39.54
6/10/2014	DA LMP - Price	INDIANA.HUB	21:00	39.3
6/10/2014	DA LMP - Price	INDIANA.HUB	22:00	33.88
6/10/2014	DA LMP - Price	INDIANA.HUB	23:00	27.04
6/10/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.57

Trade Date	Price Type	Transaction Point	Per End	Price
6/11/2014	DA LMP - Price	INDIANA.HUB	1:00	23.55
6/11/2014	DA LMP - Price	INDIANA.HUB	2:00	21.78
6/11/2014	DA LMP - Price	INDIANA.HUB	3:00	20.58
6/11/2014	DA LMP - Price	INDIANA.HUB	4:00	20.36
6/11/2014	DA LMP - Price	INDIANA.HUB	5:00	22.35
6/11/2014	DA LMP - Price	INDIANA.HUB	6:00	25.75
6/11/2014	DA LMP - Price	INDIANA.HUB	7:00	29.28
6/11/2014	DA LMP - Price	INDIANA.HUB	8:00	33.6
6/11/2014	DA LMP - Price	INDIANA.HUB	9:00	34.58
6/11/2014	DA LMP - Price	INDIANA.HUB	10:00	38
6/11/2014	DA LMP - Price	INDIANA.HUB	11:00	39.66
6/11/2014	DA LMP - Price	INDIANA.HUB	12:00	40.63
6/11/2014	DA LMP - Price	INDIANA.HUB	13:00	42.26
6/11/2014	DA LMP - Price	INDIANA.HUB	14:00	43.29
6/11/2014	DA LMP - Price	INDIANA.HUB	15:00	43.96
6/11/2014	DA LMP - Price	INDIANA.HUB	16:00	44.69
6/11/2014	DA LMP - Price	INDIANA.HUB	17:00	42.85
6/11/2014	DA LMP - Price	INDIANA.HUB	18:00	39.31
6/11/2014	DA LMP - Price	INDIANA.HUB	19:00	36.6
6/11/2014	DA LMP - Price	INDIANA.HUB	20:00	34.39
6/11/2014	DA LMP - Price	INDIANA.HUB	21:00	35.17
6/11/2014	DA LMP - Price	INDIANA.HUB	22:00	32.48
6/11/2014	DA LMP - Price	INDIANA.HUB	23:00	27.01
6/11/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.34
6/12/2014	DA LMP - Price	INDIANA.HUB	1:00	22.64
6/12/2014	DA LMP - Price	INDIANA.HUB	2:00	19.76
6/12/2014	DA LMP - Price	INDIANA.HUB	3:00	18.94
6/12/2014	DA LMP - Price	INDIANA.HUB	4:00	17.6
6/12/2014	DA LMP - Price	INDIANA.HUB	5:00	19.89
6/12/2014	DA LMP - Price	INDIANA.HUB	6:00	23.62
6/12/2014	DA LMP - Price	INDIANA.HUB	7:00	27.44
6/12/2014	DA LMP - Price	INDIANA.HUB	8:00	28.62
6/12/2014	DA LMP - Price	INDIANA.HUB	9:00	31.45
6/12/2014	DA LMP - Price	INDIANA.HUB	10:00	32.96
6/12/2014	DA LMP - Price	INDIANA.HUB	11:00	34.96
6/12/2014	DA LMP - Price	INDIANA.HUB	12:00	35.7
6/12/2014	DA LMP - Price	INDIANA.HUB	13:00	38.52
6/12/2014	DA LMP - Price	INDIANA.HUB	14:00	40.84
6/12/2014	DA LMP - Price	INDIANA.HUB	15:00	41.9
6/12/2014	DA LMP - Price	INDIANA.HUB	16:00	43.63
6/12/2014	DA LMP - Price	INDIANA.HUB	17:00	42.15
6/12/2014	DA LMP - Price	INDIANA.HUB	18:00	38.82
6/12/2014	DA LMP - Price	INDIANA.HUB	19:00	36.52
6/12/2014	DA LMP - Price	INDIANA.HUB	20:00	35.03
6/12/2014	DA LMP - Price	INDIANA.HUB	21:00	33.57
6/12/2014	DA LMP - Price	INDIANA.HUB	22:00	31

Trade Date	Price Type	Transaction Point	Per End	Price
6/12/2014	DA LMP - Price	INDIANA.HUB	23:00	25.63
6/12/2014	DA LMP - Price	INDIANA.HUB	24:00:00	23.69
6/13/2014	DA LMP - Price	INDIANA.HUB	1:00	20.35
6/13/2014	DA LMP - Price	INDIANA.HUB	2:00	17.75
6/13/2014	DA LMP - Price	INDIANA.HUB	3:00	16.44
6/13/2014	DA LMP - Price	INDIANA.HUB	4:00	15.54
6/13/2014	DA LMP - Price	INDIANA.HUB	5:00	18.13
6/13/2014	DA LMP - Price	INDIANA.HUB	6:00	21.18
6/13/2014	DA LMP - Price	INDIANA.HUB	7:00	26.3
6/13/2014	DA LMP - Price	INDIANA.HUB	8:00	31.02
6/13/2014	DA LMP - Price	INDIANA.HUB	9:00	31.93
6/13/2014	DA LMP - Price	INDIANA.HUB	10:00	33.35
6/13/2014	DA LMP - Price	INDIANA.HUB	11:00	36.46
6/13/2014	DA LMP - Price	INDIANA.HUB	12:00	36.91
6/13/2014	DA LMP - Price	INDIANA.HUB	13:00	38.18
6/13/2014	DA LMP - Price	INDIANA.HUB	14:00	38.9
6/13/2014	DA LMP - Price	INDIANA.HUB	15:00	38.57
6/13/2014	DA LMP - Price	INDIANA.HUB	16:00	36.89
6/13/2014	DA LMP - Price	INDIANA.HUB	17:00	34.61
6/13/2014	DA LMP - Price	INDIANA.HUB	18:00	33.6
6/13/2014	DA LMP - Price	INDIANA.HUB	19:00	30.27
6/13/2014	DA LMP - Price	INDIANA.HUB	20:00	30.18
6/13/2014	DA LMP - Price	INDIANA.HUB	21:00	30.14
6/13/2014	DA LMP - Price	INDIANA.HUB	22:00	27.3
6/13/2014	DA LMP - Price	INDIANA.HUB	23:00	22.55
6/13/2014	DA LMP - Price	INDIANA.HUB	24:00:00	21.68
6/14/2014	DA LMP - Price	INDIANA.HUB	1:00	19.41
6/14/2014	DA LMP - Price	INDIANA.HUB	2:00	15
6/14/2014	DA LMP - Price	INDIANA.HUB	3:00	12.88
6/14/2014	DA LMP - Price	INDIANA.HUB	4:00	12.05
6/14/2014	DA LMP - Price	INDIANA.HUB	5:00	12.25
6/14/2014	DA LMP - Price	INDIANA.HUB	6:00	12.12
6/14/2014	DA LMP - Price	INDIANA.HUB	7:00	17.43
6/14/2014	DA LMP - Price	INDIANA.HUB	8:00	22.56
6/14/2014	DA LMP - Price	INDIANA.HUB	9:00	25.69
6/14/2014	DA LMP - Price	INDIANA.HUB	10:00	27.13
6/14/2014	DA LMP - Price	INDIANA.HUB	11:00	29.35
6/14/2014	DA LMP - Price	INDIANA.HUB	12:00	28.72
6/14/2014	DA LMP - Price	INDIANA.HUB	13:00	29.72
6/14/2014	DA LMP - Price	INDIANA.HUB	14:00	29.75
6/14/2014	DA LMP - Price	INDIANA.HUB	15:00	30.35
6/14/2014	DA LMP - Price	INDIANA.HUB	16:00	30.91
6/14/2014	DA LMP - Price	INDIANA.HUB	17:00	30.71
6/14/2014	DA LMP - Price	INDIANA.HUB	18:00	30.06
6/14/2014	DA LMP - Price	INDIANA.HUB	19:00	28.26
6/14/2014	DA LMP - Price	INDIANA.HUB	20:00	26.73

Trade Date	Price Type	Transaction Point	Per End	Price
6/14/2014	DA LMP - Price	INDIANA.HUB	21:00	27.01
6/14/2014	DA LMP - Price	INDIANA.HUB	22:00	25.18
6/14/2014	DA LMP - Price	INDIANA.HUB	23:00	21.73
6/14/2014	DA LMP - Price	INDIANA.HUB	24:00:00	21.83
6/15/2014	DA LMP - Price	INDIANA.HUB	1:00	12.86
6/15/2014	DA LMP - Price	INDIANA.HUB	2:00	7.72
6/15/2014	DA LMP - Price	INDIANA.HUB	3:00	5.79
6/15/2014	DA LMP - Price	INDIANA.HUB	4:00	3
6/15/2014	DA LMP - Price	INDIANA.HUB	5:00	2.05
6/15/2014	DA LMP - Price	INDIANA.HUB	6:00	-1.72
6/15/2014	DA LMP - Price	INDIANA.HUB	7:00	2.53
6/15/2014	DA LMP - Price	INDIANA.HUB	8:00	18.39
6/15/2014	DA LMP - Price	INDIANA.HUB	9:00	23.09
6/15/2014	DA LMP - Price	INDIANA.HUB	10:00	24.73
6/15/2014	DA LMP - Price	INDIANA.HUB	11:00	26.8
6/15/2014	DA LMP - Price	INDIANA.HUB	12:00	27.48
6/15/2014	DA LMP - Price	INDIANA.HUB	13:00	28.1
6/15/2014	DA LMP - Price	INDIANA.HUB	14:00	30.04
6/15/2014	DA LMP - Price	INDIANA.HUB	15:00	30.87
6/15/2014	DA LMP - Price	INDIANA.HUB	16:00	33.52
6/15/2014	DA LMP - Price	INDIANA.HUB	17:00	33.99
6/15/2014	DA LMP - Price	INDIANA.HUB	18:00	34.39
6/15/2014	DA LMP - Price	INDIANA.HUB	19:00	33.76
6/15/2014	DA LMP - Price	INDIANA.HUB	20:00	32.99
6/15/2014	DA LMP - Price	INDIANA.HUB	21:00	34.28
6/15/2014	DA LMP - Price	INDIANA.HUB	22:00	31.62
6/15/2014	DA LMP - Price	INDIANA.HUB	23:00	25.38
6/15/2014	DA LMP - Price	INDIANA.HUB	24:00:00	23.01
6/16/2014	DA LMP - Price	INDIANA.HUB	1:00	22.28
6/16/2014	DA LMP - Price	INDIANA.HUB	2:00	21.06
6/16/2014	DA LMP - Price	INDIANA.HUB	3:00	18.75
6/16/2014	DA LMP - Price	INDIANA.HUB	4:00	18.44
6/16/2014	DA LMP - Price	INDIANA.HUB	5:00	19.8
6/16/2014	DA LMP - Price	INDIANA.HUB	6:00	23.63
6/16/2014	DA LMP - Price	INDIANA.HUB	7:00	28.96
6/16/2014	DA LMP - Price	INDIANA.HUB	8:00	32.8
6/16/2014	DA LMP - Price	INDIANA.HUB	9:00	36.5
6/16/2014	DA LMP - Price	INDIANA.HUB	10:00	39.54
6/16/2014	DA LMP - Price	INDIANA.HUB	11:00	44.41
6/16/2014	DA LMP - Price	INDIANA.HUB	12:00	45.22
6/16/2014	DA LMP - Price	INDIANA.HUB	13:00	49.38
6/16/2014	DA LMP - Price	INDIANA.HUB	14:00	54.52
6/16/2014	DA LMP - Price	INDIANA.HUB	15:00	55
6/16/2014	DA LMP - Price	INDIANA.HUB	16:00	59.8
6/16/2014	DA LMP - Price	INDIANA.HUB	17:00	61.02
6/16/2014	DA LMP - Price	INDIANA.HUB	18:00	53.88

Trade Date	Price Type	Transaction Point	Per End	Price
6/16/2014	DA LMP - Price	INDIANA.HUB	19:00	48.33
6/16/2014	DA LMP - Price	INDIANA.HUB	20:00	44.57
6/16/2014	DA LMP - Price	INDIANA.HUB	21:00	44.72
6/16/2014	DA LMP - Price	INDIANA.HUB	22:00	40
6/16/2014	DA LMP - Price	INDIANA.HUB	23:00	30.16
6/16/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27
6/17/2014	DA LMP - Price	INDIANA.HUB	1:00	27.52
6/17/2014	DA LMP - Price	INDIANA.HUB	2:00	25.6
6/17/2014	DA LMP - Price	INDIANA.HUB	3:00	24.58
6/17/2014	DA LMP - Price	INDIANA.HUB	4:00	24.08
6/17/2014	DA LMP - Price	INDIANA.HUB	5:00	25.19
6/17/2014	DA LMP - Price	INDIANA.HUB	6:00	26.99
6/17/2014	DA LMP - Price	INDIANA.HUB	7:00	32.54
6/17/2014	DA LMP - Price	INDIANA.HUB	8:00	36.4
6/17/2014	DA LMP - Price	INDIANA.HUB	9:00	39.53
6/17/2014	DA LMP - Price	INDIANA.HUB	10:00	46.12
6/17/2014	DA LMP - Price	INDIANA.HUB	11:00	53.48
6/17/2014	DA LMP - Price	INDIANA.HUB	12:00	57.15
6/17/2014	DA LMP - Price	INDIANA.HUB	13:00	61.75
6/17/2014	DA LMP - Price	INDIANA.HUB	14:00	66.64
6/17/2014	DA LMP - Price	INDIANA.HUB	15:00	71.11
6/17/2014	DA LMP - Price	INDIANA.HUB	16:00	78.82
6/17/2014	DA LMP - Price	INDIANA.HUB	17:00	76.57
6/17/2014	DA LMP - Price	INDIANA.HUB	18:00	74.15
6/17/2014	DA LMP - Price	INDIANA.HUB	19:00	61.62
6/17/2014	DA LMP - Price	INDIANA.HUB	20:00	55.32
6/17/2014	DA LMP - Price	INDIANA.HUB	21:00	51.56
6/17/2014	DA LMP - Price	INDIANA.HUB	22:00	44.25
6/17/2014	DA LMP - Price	INDIANA.HUB	23:00	37.25
6/17/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.1
6/18/2014	DA LMP - Price	INDIANA.HUB	1:00	28.23
6/18/2014	DA LMP - Price	INDIANA.HUB	2:00	26.29
6/18/2014	DA LMP - Price	INDIANA.HUB	3:00	25.25
6/18/2014	DA LMP - Price	INDIANA.HUB	4:00	24.39
6/18/2014	DA LMP - Price	INDIANA.HUB	5:00	24.97
6/18/2014	DA LMP - Price	INDIANA.HUB	6:00	27.31
6/18/2014	DA LMP - Price	INDIANA.HUB	7:00	36.13
6/18/2014	DA LMP - Price	INDIANA.HUB	8:00	41
6/18/2014	DA LMP - Price	INDIANA.HUB	9:00	48.11
6/18/2014	DA LMP - Price	INDIANA.HUB	10:00	58.36
6/18/2014	DA LMP - Price	INDIANA.HUB	11:00	65.63
6/18/2014	DA LMP - Price	INDIANA.HUB	12:00	72.42
6/18/2014	DA LMP - Price	INDIANA.HUB	13:00	75.29
6/18/2014	DA LMP - Price	INDIANA.HUB	14:00	79.49
6/18/2014	DA LMP - Price	INDIANA.HUB	15:00	86.43
6/18/2014	DA LMP - Price	INDIANA.HUB	16:00	94.81

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Trade Date	Price Type	Transaction Point	Per End	Price
6/18/2014	DA LMP - Price	INDIANA.HUB	17:00	92.44
6/18/2014	DA LMP - Price	INDIANA.HUB	18:00	78.18
6/18/2014	DA LMP - Price	INDIANA.HUB	19:00	67.79
6/18/2014	DA LMP - Price	INDIANA.HUB	20:00	62.59
6/18/2014	DA LMP - Price	INDIANA.HUB	21:00	57.27
6/18/2014	DA LMP - Price	INDIANA.HUB	22:00	47.64
6/18/2014	DA LMP - Price	INDIANA.HUB	23:00	35.88
6/18/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.3
6/19/2014	DA LMP - Price	INDIANA.HUB	1:00	27.34
6/19/2014	DA LMP - Price	INDIANA.HUB	2:00	25.52
6/19/2014	DA LMP - Price	INDIANA.HUB	3:00	24.19
6/19/2014	DA LMP - Price	INDIANA.HUB	4:00	23.67
6/19/2014	DA LMP - Price	INDIANA.HUB	5:00	25.52
6/19/2014	DA LMP - Price	INDIANA.HUB	6:00	27.73
6/19/2014	DA LMP - Price	INDIANA.HUB	7:00	31.23
6/19/2014	DA LMP - Price	INDIANA.HUB	8:00	34.61
6/19/2014	DA LMP - Price	INDIANA.HUB	9:00	38.71
6/19/2014	DA LMP - Price	INDIANA.HUB	10:00	42.68
6/19/2014	DA LMP - Price	INDIANA.HUB	11:00	49.14
6/19/2014	DA LMP - Price	INDIANA.HUB	12:00	53.52
6/19/2014	DA LMP - Price	INDIANA.HUB	13:00	57.09
6/19/2014	DA LMP - Price	INDIANA.HUB	14:00	58.99
6/19/2014	DA LMP - Price	INDIANA.HUB	15:00	64.09
6/19/2014	DA LMP - Price	INDIANA.HUB	16:00	68.83
6/19/2014	DA LMP - Price	INDIANA.HUB	17:00	66.33
6/19/2014	DA LMP - Price	INDIANA.HUB	18:00	57.82
6/19/2014	DA LMP - Price	INDIANA.HUB	19:00	52.64
6/19/2014	DA LMP - Price	INDIANA.HUB	20:00	47.78
6/19/2014	DA LMP - Price	INDIANA.HUB	21:00	46.62
6/19/2014	DA LMP - Price	INDIANA.HUB	22:00	42.27
6/19/2014	DA LMP - Price	INDIANA.HUB	23:00	34.94
6/19/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.62
6/20/2014	DA LMP - Price	INDIANA.HUB	1:00	25.94
6/20/2014	DA LMP - Price	INDIANA.HUB	2:00	23.54
6/20/2014	DA LMP - Price	INDIANA.HUB	3:00	22.76
6/20/2014	DA LMP - Price	INDIANA.HUB	4:00	21.76
6/20/2014	DA LMP - Price	INDIANA.HUB	5:00	23.71
6/20/2014	DA LMP - Price	INDIANA.HUB	6:00	24.97
6/20/2014	DA LMP - Price	INDIANA.HUB	7:00	29.4
6/20/2014	DA LMP - Price	INDIANA.HUB	8:00	33.53
6/20/2014	DA LMP - Price	INDIANA.HUB	9:00	37.29
6/20/2014	DA LMP - Price	INDIANA.HUB	10:00	39.54
6/20/2014	DA LMP - Price	INDIANA.HUB	11:00	44.19
6/20/2014	DA LMP - Price	INDIANA.HUB	12:00	45.06
6/20/2014	DA LMP - Price	INDIANA.HUB	13:00	49.24
6/20/2014	DA LMP - Price	INDIANA.HUB	14:00	52.15

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Trade Date	Price Type	Transaction Poin	Per End	Price
6/20/2014	DA LMP - Price	INDIANA.HUB	15:00	53.39
6/20/2014	DA LMP - Price	INDIANA.HUB	16:00	56.42
6/20/2014	DA LMP - Price	INDIANA.HUB	17:00	51.65
6/20/2014	DA LMP - Price	INDIANA.HUB	18:00	43.24
6/20/2014	DA LMP - Price	INDIANA.HUB	19:00	42.01
6/20/2014	DA LMP - Price	INDIANA.HUB	20:00	38.78
6/20/2014	DA LMP - Price	INDIANA.HUB	21:00	37.79
6/20/2014	DA LMP - Price	INDIANA.HUB	22:00	36.31
6/20/2014	DA LMP - Price	INDIANA.HUB	23:00	31.18
6/20/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.85
6/21/2014	DA LMP - Price	INDIANA.HUB	1:00	24.93
6/21/2014	DA LMP - Price	INDIANA.HUB	2:00	22.25
6/21/2014	DA LMP - Price	INDIANA.HUB	3:00	19.65
6/21/2014	DA LMP - Price	INDIANA.HUB	4:00	17.97
6/21/2014	DA LMP - Price	INDIANA.HUB	5:00	16.87
6/21/2014	DA LMP - Price	INDIANA.HUB	6:00	17.52
6/21/2014	DA LMP - Price	INDIANA.HUB	7:00	21.81
6/21/2014	DA LMP - Price	INDIANA.HUB	8:00	25.8
6/21/2014	DA LMP - Price	INDIANA.HUB	9:00	29.75
6/21/2014	DA LMP - Price	INDIANA.HUB	10:00	32.79
6/21/2014	DA LMP - Price	INDIANA.HUB	11:00	36.13
6/21/2014	DA LMP - Price	INDIANA.HUB	12:00	37.74
6/21/2014	DA LMP - Price	INDIANA.HUB	13:00	39.84
6/21/2014	DA LMP - Price	INDIANA.HUB	14:00	42.08
6/21/2014	DA LMP - Price	INDIANA.HUB	15:00	45.25
6/21/2014	DA LMP - Price	INDIANA.HUB	16:00	47.42
6/21/2014	DA LMP - Price	INDIANA.HUB	17:00	47.7
6/21/2014	DA LMP - Price	INDIANA.HUB	18:00	42.61
6/21/2014	DA LMP - Price	INDIANA.HUB	19:00	39.74
6/21/2014	DA LMP - Price	INDIANA.HUB	20:00	36.72
6/21/2014	DA LMP - Price	INDIANA.HUB	21:00	36.11
6/21/2014	DA LMP - Price	INDIANA.HUB	22:00	33.53
6/21/2014	DA LMP - Price	INDIANA.HUB	23:00	27.04
6/21/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.09
6/22/2014	DA LMP - Price	INDIANA.HUB	1:00	23.25
6/22/2014	DA LMP - Price	INDIANA.HUB	2:00	20.91
6/22/2014	DA LMP - Price	INDIANA.HUB	3:00	17.61
6/22/2014	DA LMP - Price	INDIANA.HUB	4:00	13.54
6/22/2014	DA LMP - Price	INDIANA.HUB	5:00	13.03
6/22/2014	DA LMP - Price	INDIANA.HUB	6:00	11.69
6/22/2014	DA LMP - Price	INDIANA.HUB	7:00	18.31
6/22/2014	DA LMP - Price	INDIANA.HUB	8:00	25.17
6/22/2014	DA LMP - Price	INDIANA.HUB	9:00	27.81
6/22/2014	DA LMP - Price	INDIANA.HUB	10:00	30.31
6/22/2014	DA LMP - Price	INDIANA.HUB	11:00	34.03
6/22/2014	DA LMP - Price	INDIANA.HUB	12:00	35.74

Trade Date	Price Type	Transaction Point	Per End	Price
6/22/2014	DA LMP - Price	INDIANA.HUB	13:00	37.76
6/22/2014	DA LMP - Price	INDIANA.HUB	14:00	39.46
6/22/2014	DA LMP - Price	INDIANA.HUB	15:00	39.3
6/22/2014	DA LMP - Price	INDIANA.HUB	16:00	44.37
6/22/2014	DA LMP - Price	INDIANA.HUB	17:00	45.11
6/22/2014	DA LMP - Price	INDIANA.HUB	18:00	45.08
6/22/2014	DA LMP - Price	INDIANA.HUB	19:00	43.02
6/22/2014	DA LMP - Price	INDIANA.HUB	20:00	41.03
6/22/2014	DA LMP - Price	INDIANA.HUB	21:00	40.17
6/22/2014	DA LMP - Price	INDIANA.HUB	22:00	37.06
6/22/2014	DA LMP - Price	INDIANA.HUB	23:00	28.91
6/22/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.03
6/23/2014	DA LMP - Price	INDIANA.HUB	1:00	25.56
6/23/2014	DA LMP - Price	INDIANA.HUB	2:00	24.24
6/23/2014	DA LMP - Price	INDIANA.HUB	3:00	21.54
6/23/2014	DA LMP - Price	INDIANA.HUB	4:00	21.35
6/23/2014	DA LMP - Price	INDIANA.HUB	5:00	24.4
6/23/2014	DA LMP - Price	INDIANA.HUB	6:00	27.5
6/23/2014	DA LMP - Price	INDIANA.HUB	7:00	33.77
6/23/2014	DA LMP - Price	INDIANA.HUB	8:00	35.19
6/23/2014	DA LMP - Price	INDIANA.HUB	9:00	36.69
6/23/2014	DA LMP - Price	INDIANA.HUB	10:00	41.8
6/23/2014	DA LMP - Price	INDIANA.HUB	11:00	47.58
6/23/2014	DA LMP - Price	INDIANA.HUB	12:00	50.18
6/23/2014	DA LMP - Price	INDIANA.HUB	13:00	54.92
6/23/2014	DA LMP - Price	INDIANA.HUB	14:00	60.42
6/23/2014	DA LMP - Price	INDIANA.HUB	15:00	64.45
6/23/2014	DA LMP - Price	INDIANA.HUB	16:00	68.37
6/23/2014	DA LMP - Price	INDIANA.HUB	17:00	66.7
6/23/2014	DA LMP - Price	INDIANA.HUB	18:00	55.92
6/23/2014	DA LMP - Price	INDIANA.HUB	19:00	49.87
6/23/2014	DA LMP - Price	INDIANA.HUB	20:00	44.29
6/23/2014	DA LMP - Price	INDIANA.HUB	21:00	43.54
6/23/2014	DA LMP - Price	INDIANA.HUB	22:00	38.99
6/23/2014	DA LMP - Price	INDIANA.HUB	23:00	33.29
6/23/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.68
6/24/2014	DA LMP - Price	INDIANA.HUB	1:00	25.74
6/24/2014	DA LMP - Price	INDIANA.HUB	2:00	23.87
6/24/2014	DA LMP - Price	INDIANA.HUB	3:00	21.45
6/24/2014	DA LMP - Price	INDIANA.HUB	4:00	20.99
6/24/2014	DA LMP - Price	INDIANA.HUB	5:00	23.4
6/24/2014	DA LMP - Price	INDIANA.HUB	6:00	25.74
6/24/2014	DA LMP - Price	INDIANA.HUB	7:00	29.96
6/24/2014	DA LMP - Price	INDIANA.HUB	8:00	32.83
6/24/2014	DA LMP - Price	INDIANA.HUB	9:00	36.49
6/24/2014	DA LMP - Price	INDIANA.HUB	10:00	40.8

Trade Date	Price Type	Transaction Point	Per End	Price
6/24/2014	DA LMP - Price	INDIANA.HUB	11:00	43.48
6/24/2014	DA LMP - Price	INDIANA.HUB	12:00	47.71
6/24/2014	DA LMP - Price	INDIANA.HUB	13:00	51.62
6/24/2014	DA LMP - Price	INDIANA.HUB	14:00	55.84
6/24/2014	DA LMP - Price	INDIANA.HUB	15:00	59.41
6/24/2014	DA LMP - Price	INDIANA.HUB	16:00	63.57
6/24/2014	DA LMP - Price	INDIANA.HUB	17:00	59.36
6/24/2014	DA LMP - Price	INDIANA.HUB	18:00	51.66
6/24/2014	DA LMP - Price	INDIANA.HUB	19:00	44.91
6/24/2014	DA LMP - Price	INDIANA.HUB	20:00	42.03
6/24/2014	DA LMP - Price	INDIANA.HUB	21:00	40.54
6/24/2014	DA LMP - Price	INDIANA.HUB	22:00	36.12
6/24/2014	DA LMP - Price	INDIANA.HUB	23:00	30.08
6/24/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.57
6/25/2014	DA LMP - Price	INDIANA.HUB	1:00	25.06
6/25/2014	DA LMP - Price	INDIANA.HUB	2:00	24.25
6/25/2014	DA LMP - Price	INDIANA.HUB	3:00	22.76
6/25/2014	DA LMP - Price	INDIANA.HUB	4:00	21.62
6/25/2014	DA LMP - Price	INDIANA.HUB	5:00	24.57
6/25/2014	DA LMP - Price	INDIANA.HUB	6:00	26.93
6/25/2014	DA LMP - Price	INDIANA.HUB	7:00	31.36
6/25/2014	DA LMP - Price	INDIANA.HUB	8:00	33.8
6/25/2014	DA LMP - Price	INDIANA.HUB	9:00	34.65
6/25/2014	DA LMP - Price	INDIANA.HUB	10:00	36.85
6/25/2014	DA LMP - Price	INDIANA.HUB	11:00	38.79
6/25/2014	DA LMP - Price	INDIANA.HUB	12:00	39.9
6/25/2014	DA LMP - Price	INDIANA.HUB	13:00	45.06
6/25/2014	DA LMP - Price	INDIANA.HUB	14:00	47.32
6/25/2014	DA LMP - Price	INDIANA.HUB	15:00	49.63
6/25/2014	DA LMP - Price	INDIANA.HUB	16:00	52.52
6/25/2014	DA LMP - Price	INDIANA.HUB	17:00	50.21
6/25/2014	DA LMP - Price	INDIANA.HUB	18:00	44.51
6/25/2014	DA LMP - Price	INDIANA.HUB	19:00	41.88
6/25/2014	DA LMP - Price	INDIANA.HUB	20:00	38.73
6/25/2014	DA LMP - Price	INDIANA.HUB	21:00	38
6/25/2014	DA LMP - Price	INDIANA.HUB	22:00	34.81
6/25/2014	DA LMP - Price	INDIANA.HUB	23:00	30.21
6/25/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.08
6/26/2014	DA LMP - Price	INDIANA.HUB	1:00	26.08
6/26/2014	DA LMP - Price	INDIANA.HUB	2:00	23.8
6/26/2014	DA LMP - Price	INDIANA.HUB	3:00	23.39
6/26/2014	DA LMP - Price	INDIANA.HUB	4:00	22.97
6/26/2014	DA LMP - Price	INDIANA.HUB	5:00	24.16
6/26/2014	DA LMP - Price	INDIANA.HUB	6:00	26.86
6/26/2014	DA LMP - Price	INDIANA.HUB	7:00	30.92
6/26/2014	DA LMP - Price	INDIANA.HUB	8:00	34.17

Trade Date	Price Type	Transaction Point	Per End	Price
6/26/2014	DA LMP - Price	INDIANA.HUB	9:00	37.11
6/26/2014	DA LMP - Price	INDIANA.HUB	10:00	36.81
6/26/2014	DA LMP - Price	INDIANA.HUB	11:00	39.87
6/26/2014	DA LMP - Price	INDIANA.HUB	12:00	42.2
6/26/2014	DA LMP - Price	INDIANA.HUB	13:00	45.57
6/26/2014	DA LMP - Price	INDIANA.HUB	14:00	47.05
6/26/2014	DA LMP - Price	INDIANA.HUB	15:00	48.07
6/26/2014	DA LMP - Price	INDIANA.HUB	16:00	52.25
6/26/2014	DA LMP - Price	INDIANA.HUB	17:00	52.08
6/26/2014	DA LMP - Price	INDIANA.HUB	18:00	45.6
6/26/2014	DA LMP - Price	INDIANA.HUB	19:00	43.23
6/26/2014	DA LMP - Price	INDIANA.HUB	20:00	39.83
6/26/2014	DA LMP - Price	INDIANA.HUB	21:00	39.5
6/26/2014	DA LMP - Price	INDIANA.HUB	22:00	36.63
6/26/2014	DA LMP - Price	INDIANA.HUB	23:00	29.15
6/26/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.88
6/27/2014	DA LMP - Price	INDIANA.HUB	1:00	27.82
6/27/2014	DA LMP - Price	INDIANA.HUB	2:00	25.85
6/27/2014	DA LMP - Price	INDIANA.HUB	3:00	25.1
6/27/2014	DA LMP - Price	INDIANA.HUB	4:00	24.99
6/27/2014	DA LMP - Price	INDIANA.HUB	5:00	27.06
6/27/2014	DA LMP - Price	INDIANA.HUB	6:00	29.23
6/27/2014	DA LMP - Price	INDIANA.HUB	7:00	37.13
6/27/2014	DA LMP - Price	INDIANA.HUB	8:00	38.5
6/27/2014	DA LMP - Price	INDIANA.HUB	9:00	38.69
6/27/2014	DA LMP - Price	INDIANA.HUB	10:00	42.16
6/27/2014	DA LMP - Price	INDIANA.HUB	11:00	46.18
6/27/2014	DA LMP - Price	INDIANA.HUB	12:00	49.35
6/27/2014	DA LMP - Price	INDIANA.HUB	13:00	52.71
6/27/2014	DA LMP - Price	INDIANA.HUB	14:00	57.67
6/27/2014	DA LMP - Price	INDIANA.HUB	15:00	59.96
6/27/2014	DA LMP - Price	INDIANA.HUB	16:00	61.83
6/27/2014	DA LMP - Price	INDIANA.HUB	17:00	59
6/27/2014	DA LMP - Price	INDIANA.HUB	18:00	52.3
6/27/2014	DA LMP - Price	INDIANA.HUB	19:00	45.51
6/27/2014	DA LMP - Price	INDIANA.HUB	20:00	44.96
6/27/2014	DA LMP - Price	INDIANA.HUB	21:00	43.91
6/27/2014	DA LMP - Price	INDIANA.HUB	22:00	38.25
6/27/2014	DA LMP - Price	INDIANA.HUB	23:00	34.95
6/27/2014	DA LMP - Price	INDIANA.HUB	24:00:00	30.55
6/28/2014	DA LMP - Price	INDIANA.HUB	1:00	27.96
6/28/2014	DA LMP - Price	INDIANA.HUB	2:00	26.01
6/28/2014	DA LMP - Price	INDIANA.HUB	3:00	24.62
6/28/2014	DA LMP - Price	INDIANA.HUB	4:00	23.28
6/28/2014	DA LMP - Price	INDIANA.HUB	5:00	24.02
6/28/2014	DA LMP - Price	INDIANA.HUB	6:00	24.06

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Trade Date	Price Type	Transaction Point	Per End	Price
6/28/2014	DA LMP - Price	INDIANA.HUB	7:00	28.86
6/28/2014	DA LMP - Price	INDIANA.HUB	8:00	33.46
6/28/2014	DA LMP - Price	INDIANA.HUB	9:00	35.09
6/28/2014	DA LMP - Price	INDIANA.HUB	10:00	38.95
6/28/2014	DA LMP - Price	INDIANA.HUB	11:00	43.53
6/28/2014	DA LMP - Price	INDIANA.HUB	12:00	44.73
6/28/2014	DA LMP - Price	INDIANA.HUB	13:00	47.28
6/28/2014	DA LMP - Price	INDIANA.HUB	14:00	51.25
6/28/2014	DA LMP - Price	INDIANA.HUB	15:00	53.29
6/28/2014	DA LMP - Price	INDIANA.HUB	16:00	55.48
6/28/2014	DA LMP - Price	INDIANA.HUB	17:00	53.34
6/28/2014	DA LMP - Price	INDIANA.HUB	18:00	49.28
6/28/2014	DA LMP - Price	INDIANA.HUB	19:00	43.77
6/28/2014	DA LMP - Price	INDIANA.HUB	20:00	40.23
6/28/2014	DA LMP - Price	INDIANA.HUB	21:00	39.21
6/28/2014	DA LMP - Price	INDIANA.HUB	22:00	34.98
6/28/2014	DA LMP - Price	INDIANA.HUB	23:00	30.62
6/28/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.42
6/29/2014	DA LMP - Price	INDIANA.HUB	1:00	26.13
6/29/2014	DA LMP - Price	INDIANA.HUB	2:00	25.08
6/29/2014	DA LMP - Price	INDIANA.HUB	3:00	23.39
6/29/2014	DA LMP - Price	INDIANA.HUB	4:00	22.34
6/29/2014	DA LMP - Price	INDIANA.HUB	5:00	22.14
6/29/2014	DA LMP - Price	INDIANA.HUB	6:00	18.29
6/29/2014	DA LMP - Price	INDIANA.HUB	7:00	24.67
6/29/2014	DA LMP - Price	INDIANA.HUB	8:00	29.32
6/29/2014	DA LMP - Price	INDIANA.HUB	9:00	33.98
6/29/2014	DA LMP - Price	INDIANA.HUB	10:00	34.01
6/29/2014	DA LMP - Price	INDIANA.HUB	11:00	36.49
6/29/2014	DA LMP - Price	INDIANA.HUB	12:00	40.44
6/29/2014	DA LMP - Price	INDIANA.HUB	13:00	44.46
6/29/2014	DA LMP - Price	INDIANA.HUB	14:00	47.17
6/29/2014	DA LMP - Price	INDIANA.HUB	15:00	48.39
6/29/2014	DA LMP - Price	INDIANA.HUB	16:00	51.88
6/29/2014	DA LMP - Price	INDIANA.HUB	17:00	52.83
6/29/2014	DA LMP - Price	INDIANA.HUB	18:00	52.26
6/29/2014	DA LMP - Price	INDIANA.HUB	19:00	46.62
6/29/2014	DA LMP - Price	INDIANA.HUB	20:00	42.42
6/29/2014	DA LMP - Price	INDIANA.HUB	21:00	45.08
6/29/2014	DA LMP - Price	INDIANA.HUB	22:00	39.67
6/29/2014	DA LMP - Price	INDIANA.HUB	23:00	31.92
6/29/2014	DA LMP - Price	INDIANA.HUB	24:00:00	29.65
6/30/2014	DA LMP - Price	INDIANA.HUB	1:00	26.51
6/30/2014	DA LMP - Price	INDIANA.HUB	2:00	25.47
6/30/2014	DA LMP - Price	INDIANA.HUB	3:00	24.8
6/30/2014	DA LMP - Price	INDIANA.HUB	4:00	24.49

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Trade Date	Price Type	Transaction Point	Per End	Price
6/30/2014	DA LMP - Price	INDIANA.HUB	5:00	25.61
6/30/2014	DA LMP - Price	INDIANA.HUB	6:00	28
6/30/2014	DA LMP - Price	INDIANA.HUB	7:00	39.33
6/30/2014	DA LMP - Price	INDIANA.HUB	8:00	42
6/30/2014	DA LMP - Price	INDIANA.HUB	9:00	49.51
6/30/2014	DA LMP - Price	INDIANA.HUB	10:00	58.85
6/30/2014	DA LMP - Price	INDIANA.HUB	11:00	64.31
6/30/2014	DA LMP - Price	INDIANA.HUB	12:00	70.83
6/30/2014	DA LMP - Price	INDIANA.HUB	13:00	76.02
6/30/2014	DA LMP - Price	INDIANA.HUB	14:00	81.25
6/30/2014	DA LMP - Price	INDIANA.HUB	15:00	88.15
6/30/2014	DA LMP - Price	INDIANA.HUB	16:00	91
6/30/2014	DA LMP - Price	INDIANA.HUB	17:00	90.79
6/30/2014	DA LMP - Price	INDIANA.HUB	18:00	77.49
6/30/2014	DA LMP - Price	INDIANA.HUB	19:00	64.53
6/30/2014	DA LMP - Price	INDIANA.HUB	20:00	56.64
6/30/2014	DA LMP - Price	INDIANA.HUB	21:00	50.52
6/30/2014	DA LMP - Price	INDIANA.HUB	22:00	47.04
6/30/2014	DA LMP - Price	INDIANA.HUB	23:00	35.55
6/30/2014	DA LMP - Price	INDIANA.HUB	24:00:00	32.67
7/1/2014	DA LMP - Price	INDIANA.HUB	1:00	28.6
7/1/2014	DA LMP - Price	INDIANA.HUB	2:00	26.55
7/1/2014	DA LMP - Price	INDIANA.HUB	3:00	25.53
7/1/2014	DA LMP - Price	INDIANA.HUB	4:00	24.89
7/1/2014	DA LMP - Price	INDIANA.HUB	5:00	26.47
7/1/2014	DA LMP - Price	INDIANA.HUB	6:00	28.46
7/1/2014	DA LMP - Price	INDIANA.HUB	7:00	34.1
7/1/2014	DA LMP - Price	INDIANA.HUB	8:00	36.07
7/1/2014	DA LMP - Price	INDIANA.HUB	9:00	35.97
7/1/2014	DA LMP - Price	INDIANA.HUB	10:00	43.32
7/1/2014	DA LMP - Price	INDIANA.HUB	11:00	45.37
7/1/2014	DA LMP - Price	INDIANA.HUB	12:00	50.53
7/1/2014	DA LMP - Price	INDIANA.HUB	13:00	58.8
7/1/2014	DA LMP - Price	INDIANA.HUB	14:00	61.49
7/1/2014	DA LMP - Price	INDIANA.HUB	15:00	64.96
7/1/2014	DA LMP - Price	INDIANA.HUB	16:00	70.04
7/1/2014	DA LMP - Price	INDIANA.HUB	17:00	64.35
7/1/2014	DA LMP - Price	INDIANA.HUB	18:00	54.03
7/1/2014	DA LMP - Price	INDIANA.HUB	19:00	47.52
7/1/2014	DA LMP - Price	INDIANA.HUB	20:00	46.15
7/1/2014	DA LMP - Price	INDIANA.HUB	21:00	43.17
7/1/2014	DA LMP - Price	INDIANA.HUB	22:00	37.74
7/1/2014	DA LMP - Price	INDIANA.HUB	23:00	31.23
7/1/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.54
7/2/2014	DA LMP - Price	INDIANA.HUB	1:00	23.64
7/2/2014	DA LMP - Price	INDIANA.HUB	2:00	22.7

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Trade Date	Price Type	Transaction Poin	Per End	Price
7/2/2014	DA LMP - Price	INDIANA.HUB	3:00	20.8
7/2/2014	DA LMP - Price	INDIANA.HUB	4:00	20
7/2/2014	DA LMP - Price	INDIANA.HUB	5:00	23.26
7/2/2014	DA LMP - Price	INDIANA.HUB	6:00	24.3
7/2/2014	DA LMP - Price	INDIANA.HUB	7:00	27.6
7/2/2014	DA LMP - Price	INDIANA.HUB	8:00	32.2
7/2/2014	DA LMP - Price	INDIANA.HUB	9:00	33.62
7/2/2014	DA LMP - Price	INDIANA.HUB	10:00	35.7
7/2/2014	DA LMP - Price	INDIANA.HUB	11:00	37.86
7/2/2014	DA LMP - Price	INDIANA.HUB	12:00	39.68
7/2/2014	DA LMP - Price	INDIANA.HUB	13:00	43.17
7/2/2014	DA LMP - Price	INDIANA.HUB	14:00	45.19
7/2/2014	DA LMP - Price	INDIANA.HUB	15:00	46.07
7/2/2014	DA LMP - Price	INDIANA.HUB	16:00	45.59
7/2/2014	DA LMP - Price	INDIANA.HUB	17:00	43.25
7/2/2014	DA LMP - Price	INDIANA.HUB	18:00	40.59
7/2/2014	DA LMP - Price	INDIANA.HUB	19:00	38.21
7/2/2014	DA LMP - Price	INDIANA.HUB	20:00	35.24
7/2/2014	DA LMP - Price	INDIANA.HUB	21:00	35.17
7/2/2014	DA LMP - Price	INDIANA.HUB	22:00	32.87
7/2/2014	DA LMP - Price	INDIANA.HUB	23:00	27.57
7/2/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.95
7/3/2014	DA LMP - Price	INDIANA.HUB	1:00	23.85
7/3/2014	DA LMP - Price	INDIANA.HUB	2:00	23.34
7/3/2014	DA LMP - Price	INDIANA.HUB	3:00	22.04
7/3/2014	DA LMP - Price	INDIANA.HUB	4:00	21.67
7/3/2014	DA LMP - Price	INDIANA.HUB	5:00	22.83
7/3/2014	DA LMP - Price	INDIANA.HUB	6:00	24.42
7/3/2014	DA LMP - Price	INDIANA.HUB	7:00	27.96
7/3/2014	DA LMP - Price	INDIANA.HUB	8:00	32
7/3/2014	DA LMP - Price	INDIANA.HUB	9:00	34.5
7/3/2014	DA LMP - Price	INDIANA.HUB	10:00	36.56
7/3/2014	DA LMP - Price	INDIANA.HUB	11:00	37
7/3/2014	DA LMP - Price	INDIANA.HUB	12:00	38.27
7/3/2014	DA LMP - Price	INDIANA.HUB	13:00	40.29
7/3/2014	DA LMP - Price	INDIANA.HUB	14:00	41.2
7/3/2014	DA LMP - Price	INDIANA.HUB	15:00	42
7/3/2014	DA LMP - Price	INDIANA.HUB	16:00	42.36
7/3/2014	DA LMP - Price	INDIANA.HUB	17:00	41.08
7/3/2014	DA LMP - Price	INDIANA.HUB	18:00	38.24
7/3/2014	DA LMP - Price	INDIANA.HUB	19:00	35.86
7/3/2014	DA LMP - Price	INDIANA.HUB	20:00	34.59
7/3/2014	DA LMP - Price	INDIANA.HUB	21:00	33.37
7/3/2014	DA LMP - Price	INDIANA.HUB	22:00	30.52
7/3/2014	DA LMP - Price	INDIANA.HUB	23:00	25.53
7/3/2014	DA LMP - Price	INDIANA.HUB	24:00:00	23.38

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Trade Date	Price Type	Transaction Point	Per End	Price
7/4/2014	DA LMP - Price	INDIANA.HUB	1:00	20.15
7/4/2014	DA LMP - Price	INDIANA.HUB	2:00	16.94
7/4/2014	DA LMP - Price	INDIANA.HUB	3:00	12.28
7/4/2014	DA LMP - Price	INDIANA.HUB	4:00	9.14
7/4/2014	DA LMP - Price	INDIANA.HUB	5:00	9.47
7/4/2014	DA LMP - Price	INDIANA.HUB	6:00	9
7/4/2014	DA LMP - Price	INDIANA.HUB	7:00	15.09
7/4/2014	DA LMP - Price	INDIANA.HUB	8:00	21.72
7/4/2014	DA LMP - Price	INDIANA.HUB	9:00	24.55
7/4/2014	DA LMP - Price	INDIANA.HUB	10:00	26.96
7/4/2014	DA LMP - Price	INDIANA.HUB	11:00	27.86
7/4/2014	DA LMP - Price	INDIANA.HUB	12:00	28.41
7/4/2014	DA LMP - Price	INDIANA.HUB	13:00	30.09
7/4/2014	DA LMP - Price	INDIANA.HUB	14:00	29.7
7/4/2014	DA LMP - Price	INDIANA.HUB	15:00	30.36
7/4/2014	DA LMP - Price	INDIANA.HUB	16:00	30.99
7/4/2014	DA LMP - Price	INDIANA.HUB	17:00	31.55
7/4/2014	DA LMP - Price	INDIANA.HUB	18:00	30.69
7/4/2014	DA LMP - Price	INDIANA.HUB	19:00	28.39
7/4/2014	DA LMP - Price	INDIANA.HUB	20:00	26.92
7/4/2014	DA LMP - Price	INDIANA.HUB	21:00	26.78
7/4/2014	DA LMP - Price	INDIANA.HUB	22:00	25.17
7/4/2014	DA LMP - Price	INDIANA.HUB	23:00	23.11
7/4/2014	DA LMP - Price	INDIANA.HUB	24:00:00	22.82
7/5/2014	DA LMP - Price	INDIANA.HUB	1:00	15.96
7/5/2014	DA LMP - Price	INDIANA.HUB	2:00	11.99
7/5/2014	DA LMP - Price	INDIANA.HUB	3:00	6.61
7/5/2014	DA LMP - Price	INDIANA.HUB	4:00	0.16
7/5/2014	DA LMP - Price	INDIANA.HUB	5:00	0.61
7/5/2014	DA LMP - Price	INDIANA.HUB	6:00	-0.95
7/5/2014	DA LMP - Price	INDIANA.HUB	7:00	6.2
7/5/2014	DA LMP - Price	INDIANA.HUB	8:00	22.24
7/5/2014	DA LMP - Price	INDIANA.HUB	9:00	24.35
7/5/2014	DA LMP - Price	INDIANA.HUB	10:00	27.49
7/5/2014	DA LMP - Price	INDIANA.HUB	11:00	28.7
7/5/2014	DA LMP - Price	INDIANA.HUB	12:00	28.9
7/5/2014	DA LMP - Price	INDIANA.HUB	13:00	30.23
7/5/2014	DA LMP - Price	INDIANA.HUB	14:00	29.99
7/5/2014	DA LMP - Price	INDIANA.HUB	15:00	30.55
7/5/2014	DA LMP - Price	INDIANA.HUB	16:00	32.1
7/5/2014	DA LMP - Price	INDIANA.HUB	17:00	32.99
7/5/2014	DA LMP - Price	INDIANA.HUB	18:00	33.29
7/5/2014	DA LMP - Price	INDIANA.HUB	19:00	31.57
7/5/2014	DA LMP - Price	INDIANA.HUB	20:00	29.13
7/5/2014	DA LMP - Price	INDIANA.HUB	21:00	29.29
7/5/2014	DA LMP - Price	INDIANA.HUB	22:00	27.7

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Trade Date	Price Type	Transaction Point	Per End	Price
7/5/2014	DA LMP - Price	INDIANA.HUB	23:00	22.71
7/5/2014	DA LMP - Price	INDIANA.HUB	24:00:00	21.82
7/6/2014	DA LMP - Price	INDIANA.HUB	1:00	17.86
7/6/2014	DA LMP - Price	INDIANA.HUB	2:00	15
7/6/2014	DA LMP - Price	INDIANA.HUB	3:00	8.21
7/6/2014	DA LMP - Price	INDIANA.HUB	4:00	6.18
7/6/2014	DA LMP - Price	INDIANA.HUB	5:00	6.15
7/6/2014	DA LMP - Price	INDIANA.HUB	6:00	6.18
7/6/2014	DA LMP - Price	INDIANA.HUB	7:00	10
7/6/2014	DA LMP - Price	INDIANA.HUB	8:00	19.93
7/6/2014	DA LMP - Price	INDIANA.HUB	9:00	25.27
7/6/2014	DA LMP - Price	INDIANA.HUB	10:00	27.32
7/6/2014	DA LMP - Price	INDIANA.HUB	11:00	30.51
7/6/2014	DA LMP - Price	INDIANA.HUB	12:00	32.06
7/6/2014	DA LMP - Price	INDIANA.HUB	13:00	33.6
7/6/2014	DA LMP - Price	INDIANA.HUB	14:00	35.33
7/6/2014	DA LMP - Price	INDIANA.HUB	15:00	35.09
7/6/2014	DA LMP - Price	INDIANA.HUB	16:00	36.25
7/6/2014	DA LMP - Price	INDIANA.HUB	17:00	42.83
7/6/2014	DA LMP - Price	INDIANA.HUB	18:00	42.69
7/6/2014	DA LMP - Price	INDIANA.HUB	19:00	39.15
7/6/2014	DA LMP - Price	INDIANA.HUB	20:00	34.9
7/6/2014	DA LMP - Price	INDIANA.HUB	21:00	34.92
7/6/2014	DA LMP - Price	INDIANA.HUB	22:00	33.61
7/6/2014	DA LMP - Price	INDIANA.HUB	23:00	27.8
7/6/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.66
7/7/2014	DA LMP - Price	INDIANA.HUB	1:00	24.76
7/7/2014	DA LMP - Price	INDIANA.HUB	2:00	24.11
7/7/2014	DA LMP - Price	INDIANA.HUB	3:00	22.52
7/7/2014	DA LMP - Price	INDIANA.HUB	4:00	22.21
7/7/2014	DA LMP - Price	INDIANA.HUB	5:00	24.2
7/7/2014	DA LMP - Price	INDIANA.HUB	6:00	25.08
7/7/2014	DA LMP - Price	INDIANA.HUB	7:00	30.37
7/7/2014	DA LMP - Price	INDIANA.HUB	8:00	34.51
7/7/2014	DA LMP - Price	INDIANA.HUB	9:00	36.27
7/7/2014	DA LMP - Price	INDIANA.HUB	10:00	39.48
7/7/2014	DA LMP - Price	INDIANA.HUB	11:00	42.22
7/7/2014	DA LMP - Price	INDIANA.HUB	12:00	44.2
7/7/2014	DA LMP - Price	INDIANA.HUB	13:00	49.59
7/7/2014	DA LMP - Price	INDIANA.HUB	14:00	55.2
7/7/2014	DA LMP - Price	INDIANA.HUB	15:00	57.94
7/7/2014	DA LMP - Price	INDIANA.HUB	16:00	63.96
7/7/2014	DA LMP - Price	INDIANA.HUB	17:00	59.95
7/7/2014	DA LMP - Price	INDIANA.HUB	18:00	52.61
7/7/2014	DA LMP - Price	INDIANA.HUB	19:00	44.96
7/7/2014	DA LMP - Price	INDIANA.HUB	20:00	41.37

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Trade Date	Price Type	Transaction Point	Per End	Price
7/7/2014	DA LMP - Price	INDIANA.HUB	21:00	41
7/7/2014	DA LMP - Price	INDIANA.HUB	22:00	37.07
7/7/2014	DA LMP - Price	INDIANA.HUB	23:00	32.29
7/7/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.85
7/8/2014	DA LMP - Price	INDIANA.HUB	1:00	26.69
7/8/2014	DA LMP - Price	INDIANA.HUB	2:00	25.41
7/8/2014	DA LMP - Price	INDIANA.HUB	3:00	24.07
7/8/2014	DA LMP - Price	INDIANA.HUB	4:00	23.26
7/8/2014	DA LMP - Price	INDIANA.HUB	5:00	24.86
7/8/2014	DA LMP - Price	INDIANA.HUB	6:00	26.81
7/8/2014	DA LMP - Price	INDIANA.HUB	7:00	30.59
7/8/2014	DA LMP - Price	INDIANA.HUB	8:00	32.21
7/8/2014	DA LMP - Price	INDIANA.HUB	9:00	33.89
7/8/2014	DA LMP - Price	INDIANA.HUB	10:00	36.52
7/8/2014	DA LMP - Price	INDIANA.HUB	11:00	39.75
7/8/2014	DA LMP - Price	INDIANA.HUB	12:00	43.34
7/8/2014	DA LMP - Price	INDIANA.HUB	13:00	44.38
7/8/2014	DA LMP - Price	INDIANA.HUB	14:00	48.14
7/8/2014	DA LMP - Price	INDIANA.HUB	15:00	49.82
7/8/2014	DA LMP - Price	INDIANA.HUB	16:00	54.02
7/8/2014	DA LMP - Price	INDIANA.HUB	17:00	52.13
7/8/2014	DA LMP - Price	INDIANA.HUB	18:00	45.53
7/8/2014	DA LMP - Price	INDIANA.HUB	19:00	41.92
7/8/2014	DA LMP - Price	INDIANA.HUB	20:00	38.53
7/8/2014	DA LMP - Price	INDIANA.HUB	21:00	38.6
7/8/2014	DA LMP - Price	INDIANA.HUB	22:00	34.71
7/8/2014	DA LMP - Price	INDIANA.HUB	23:00	31.13
7/8/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.83
7/9/2014	DA LMP - Price	INDIANA.HUB	1:00	25.7
7/9/2014	DA LMP - Price	INDIANA.HUB	2:00	24.75
7/9/2014	DA LMP - Price	INDIANA.HUB	3:00	22.67
7/9/2014	DA LMP - Price	INDIANA.HUB	4:00	22.51
7/9/2014	DA LMP - Price	INDIANA.HUB	5:00	24.11
7/9/2014	DA LMP - Price	INDIANA.HUB	6:00	25.19
7/9/2014	DA LMP - Price	INDIANA.HUB	7:00	28.29
7/9/2014	DA LMP - Price	INDIANA.HUB	8:00	32.35
7/9/2014	DA LMP - Price	INDIANA.HUB	9:00	34.92
7/9/2014	DA LMP - Price	INDIANA.HUB	10:00	34.19
7/9/2014	DA LMP - Price	INDIANA.HUB	11:00	37.98
7/9/2014	DA LMP - Price	INDIANA.HUB	12:00	38.41
7/9/2014	DA LMP - Price	INDIANA.HUB	13:00	40.09
7/9/2014	DA LMP - Price	INDIANA.HUB	14:00	43.86
7/9/2014	DA LMP - Price	INDIANA.HUB	15:00	43.44
7/9/2014	DA LMP - Price	INDIANA.HUB	16:00	44.67
7/9/2014	DA LMP - Price	INDIANA.HUB	17:00	45.25
7/9/2014	DA LMP - Price	INDIANA.HUB	18:00	42.67

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Trade Date	Price Type	Transaction Point	Per End	Price
7/9/2014	DA LMP - Price	INDIANA.HUB	19:00	39.76
7/9/2014	DA LMP - Price	INDIANA.HUB	20:00	37.77
7/9/2014	DA LMP - Price	INDIANA.HUB	21:00	36.39
7/9/2014	DA LMP - Price	INDIANA.HUB	22:00	33.95
7/9/2014	DA LMP - Price	INDIANA.HUB	23:00	28.1
7/9/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.31
7/10/2014	DA LMP - Price	INDIANA.HUB	1:00	25.13
7/10/2014	DA LMP - Price	INDIANA.HUB	2:00	24.13
7/10/2014	DA LMP - Price	INDIANA.HUB	3:00	23.19
7/10/2014	DA LMP - Price	INDIANA.HUB	4:00	23
7/10/2014	DA LMP - Price	INDIANA.HUB	5:00	24.89
7/10/2014	DA LMP - Price	INDIANA.HUB	6:00	26.6
7/10/2014	DA LMP - Price	INDIANA.HUB	7:00	28.3
7/10/2014	DA LMP - Price	INDIANA.HUB	8:00	33.57
7/10/2014	DA LMP - Price	INDIANA.HUB	9:00	33.25
7/10/2014	DA LMP - Price	INDIANA.HUB	10:00	35.52
7/10/2014	DA LMP - Price	INDIANA.HUB	11:00	37.7
7/10/2014	DA LMP - Price	INDIANA.HUB	12:00	39.11
7/10/2014	DA LMP - Price	INDIANA.HUB	13:00	41.84
7/10/2014	DA LMP - Price	INDIANA.HUB	14:00	43.33
7/10/2014	DA LMP - Price	INDIANA.HUB	15:00	45.59
7/10/2014	DA LMP - Price	INDIANA.HUB	16:00	46.59
7/10/2014	DA LMP - Price	INDIANA.HUB	17:00	46.89
7/10/2014	DA LMP - Price	INDIANA.HUB	18:00	44.85
7/10/2014	DA LMP - Price	INDIANA.HUB	19:00	41.27
7/10/2014	DA LMP - Price	INDIANA.HUB	20:00	36.59
7/10/2014	DA LMP - Price	INDIANA.HUB	21:00	35.98
7/10/2014	DA LMP - Price	INDIANA.HUB	22:00	34.56
7/10/2014	DA LMP - Price	INDIANA.HUB	23:00	27
7/10/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.3
7/11/2014	DA LMP - Price	INDIANA.HUB	1:00	22.24
7/11/2014	DA LMP - Price	INDIANA.HUB	2:00	21.54
7/11/2014	DA LMP - Price	INDIANA.HUB	3:00	20.94
7/11/2014	DA LMP - Price	INDIANA.HUB	4:00	20.38
7/11/2014	DA LMP - Price	INDIANA.HUB	5:00	22.11
7/11/2014	DA LMP - Price	INDIANA.HUB	6:00	23.41
7/11/2014	DA LMP - Price	INDIANA.HUB	7:00	25.17
7/11/2014	DA LMP - Price	INDIANA.HUB	8:00	27.32
7/11/2014	DA LMP - Price	INDIANA.HUB	9:00	32.01
7/11/2014	DA LMP - Price	INDIANA.HUB	10:00	33.06
7/11/2014	DA LMP - Price	INDIANA.HUB	11:00	34.27
7/11/2014	DA LMP - Price	INDIANA.HUB	12:00	37.33
7/11/2014	DA LMP - Price	INDIANA.HUB	13:00	38.87
7/11/2014	DA LMP - Price	INDIANA.HUB	14:00	40.06
7/11/2014	DA LMP - Price	INDIANA.HUB	15:00	42.03
7/11/2014	DA LMP - Price	INDIANA.HUB	16:00	44.47

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Trade Date	Price Type	Transaction Point	Per End	Price
7/11/2014	DA LMP - Price	INDIANA.HUB	17:00	44.7
7/11/2014	DA LMP - Price	INDIANA.HUB	18:00	42
7/11/2014	DA LMP - Price	INDIANA.HUB	19:00	39.8
7/11/2014	DA LMP - Price	INDIANA.HUB	20:00	34.72
7/11/2014	DA LMP - Price	INDIANA.HUB	21:00	33.99
7/11/2014	DA LMP - Price	INDIANA.HUB	22:00	32.07
7/11/2014	DA LMP - Price	INDIANA.HUB	23:00	28.08
7/11/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.98
7/12/2014	DA LMP - Price	INDIANA.HUB	1:00	25.83
7/12/2014	DA LMP - Price	INDIANA.HUB	2:00	24.3
7/12/2014	DA LMP - Price	INDIANA.HUB	3:00	22.66
7/12/2014	DA LMP - Price	INDIANA.HUB	4:00	22.23
7/12/2014	DA LMP - Price	INDIANA.HUB	5:00	21.98
7/12/2014	DA LMP - Price	INDIANA.HUB	6:00	21.75
7/12/2014	DA LMP - Price	INDIANA.HUB	7:00	23.9
7/12/2014	DA LMP - Price	INDIANA.HUB	8:00	25.66
7/12/2014	DA LMP - Price	INDIANA.HUB	9:00	31.72
7/12/2014	DA LMP - Price	INDIANA.HUB	10:00	32.17
7/12/2014	DA LMP - Price	INDIANA.HUB	11:00	37.89
7/12/2014	DA LMP - Price	INDIANA.HUB	12:00	41.26
7/12/2014	DA LMP - Price	INDIANA.HUB	13:00	42.3
7/12/2014	DA LMP - Price	INDIANA.HUB	14:00	43.69
7/12/2014	DA LMP - Price	INDIANA.HUB	15:00	43.96
7/12/2014	DA LMP - Price	INDIANA.HUB	16:00	47.13
7/12/2014	DA LMP - Price	INDIANA.HUB	17:00	47.7
7/12/2014	DA LMP - Price	INDIANA.HUB	18:00	45.19
7/12/2014	DA LMP - Price	INDIANA.HUB	19:00	41.39
7/12/2014	DA LMP - Price	INDIANA.HUB	20:00	36.89
7/12/2014	DA LMP - Price	INDIANA.HUB	21:00	36.71
7/12/2014	DA LMP - Price	INDIANA.HUB	22:00	32.45
7/12/2014	DA LMP - Price	INDIANA.HUB	23:00	28.93
7/12/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.38
7/13/2014	DA LMP - Price	INDIANA.HUB	1:00	28.21
7/13/2014	DA LMP - Price	INDIANA.HUB	2:00	25.15
7/13/2014	DA LMP - Price	INDIANA.HUB	3:00	24.1
7/13/2014	DA LMP - Price	INDIANA.HUB	4:00	23.49
7/13/2014	DA LMP - Price	INDIANA.HUB	5:00	22.95
7/13/2014	DA LMP - Price	INDIANA.HUB	6:00	23.1
7/13/2014	DA LMP - Price	INDIANA.HUB	7:00	23.62
7/13/2014	DA LMP - Price	INDIANA.HUB	8:00	28.19
7/13/2014	DA LMP - Price	INDIANA.HUB	9:00	31
7/13/2014	DA LMP - Price	INDIANA.HUB	10:00	31.55
7/13/2014	DA LMP - Price	INDIANA.HUB	11:00	33.97
7/13/2014	DA LMP - Price	INDIANA.HUB	12:00	37.66
7/13/2014	DA LMP - Price	INDIANA.HUB	13:00	39.46
7/13/2014	DA LMP - Price	INDIANA.HUB	14:00	42.17

Trade Date	Price Type	Transaction Point	Per End	Price
7/13/2014	DA LMP - Price	INDIANA.HUB	15:00	43.96
7/13/2014	DA LMP - Price	INDIANA.HUB	16:00	46.58
7/13/2014	DA LMP - Price	INDIANA.HUB	17:00	47.75
7/13/2014	DA LMP - Price	INDIANA.HUB	18:00	45.97
7/13/2014	DA LMP - Price	INDIANA.HUB	19:00	41.15
7/13/2014	DA LMP - Price	INDIANA.HUB	20:00	38.65
7/13/2014	DA LMP - Price	INDIANA.HUB	21:00	38.87
7/13/2014	DA LMP - Price	INDIANA.HUB	22:00	32.47
7/13/2014	DA LMP - Price	INDIANA.HUB	23:00	30.56
7/13/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.84
7/14/2014	DA LMP - Price	INDIANA.HUB	1:00	25.92
7/14/2014	DA LMP - Price	INDIANA.HUB	2:00	25.05
7/14/2014	DA LMP - Price	INDIANA.HUB	3:00	23.09
7/14/2014	DA LMP - Price	INDIANA.HUB	4:00	22.34
7/14/2014	DA LMP - Price	INDIANA.HUB	5:00	23.96
7/14/2014	DA LMP - Price	INDIANA.HUB	6:00	26.12
7/14/2014	DA LMP - Price	INDIANA.HUB	7:00	29.24
7/14/2014	DA LMP - Price	INDIANA.HUB	8:00	30.44
7/14/2014	DA LMP - Price	INDIANA.HUB	9:00	33.45
7/14/2014	DA LMP - Price	INDIANA.HUB	10:00	35.51
7/14/2014	DA LMP - Price	INDIANA.HUB	11:00	41.42
7/14/2014	DA LMP - Price	INDIANA.HUB	12:00	42.87
7/14/2014	DA LMP - Price	INDIANA.HUB	13:00	43.12
7/14/2014	DA LMP - Price	INDIANA.HUB	14:00	43.51
7/14/2014	DA LMP - Price	INDIANA.HUB	15:00	44.05
7/14/2014	DA LMP - Price	INDIANA.HUB	16:00	45.47
7/14/2014	DA LMP - Price	INDIANA.HUB	17:00	43.47
7/14/2014	DA LMP - Price	INDIANA.HUB	18:00	41.33
7/14/2014	DA LMP - Price	INDIANA.HUB	19:00	38.7
7/14/2014	DA LMP - Price	INDIANA.HUB	20:00	35.25
7/14/2014	DA LMP - Price	INDIANA.HUB	21:00	35.56
7/14/2014	DA LMP - Price	INDIANA.HUB	22:00	33.04
7/14/2014	DA LMP - Price	INDIANA.HUB	23:00	26.2
7/14/2014	DA LMP - Price	INDIANA.HUB	24:00:00	24.77
7/15/2014	DA LMP - Price	INDIANA.HUB	1:00	23.04
7/15/2014	DA LMP - Price	INDIANA.HUB	2:00	21.98
7/15/2014	DA LMP - Price	INDIANA.HUB	3:00	20.71
7/15/2014	DA LMP - Price	INDIANA.HUB	4:00	20.49
7/15/2014	DA LMP - Price	INDIANA.HUB	5:00	24.09
7/15/2014	DA LMP - Price	INDIANA.HUB	6:00	24.85
7/15/2014	DA LMP - Price	INDIANA.HUB	7:00	27.81
7/15/2014	DA LMP - Price	INDIANA.HUB	8:00	29.39
7/15/2014	DA LMP - Price	INDIANA.HUB	9:00	29.83
7/15/2014	DA LMP - Price	INDIANA.HUB	10:00	34.55
7/15/2014	DA LMP - Price	INDIANA.HUB	11:00	33.88
7/15/2014	DA LMP - Price	INDIANA.HUB	12:00	34.42

Trade Date	Price Type	Transaction Point	Per End	Price
7/15/2014	DA LMP - Price	INDIANA.HUB	13:00	34.79
7/15/2014	DA LMP - Price	INDIANA.HUB	14:00	36.37
7/15/2014	DA LMP - Price	INDIANA.HUB	15:00	34.71
7/15/2014	DA LMP - Price	INDIANA.HUB	16:00	34.66
7/15/2014	DA LMP - Price	INDIANA.HUB	17:00	34.69
7/15/2014	DA LMP - Price	INDIANA.HUB	18:00	33.59
7/15/2014	DA LMP - Price	INDIANA.HUB	19:00	32.23
7/15/2014	DA LMP - Price	INDIANA.HUB	20:00	30.76
7/15/2014	DA LMP - Price	INDIANA.HUB	21:00	31.27
7/15/2014	DA LMP - Price	INDIANA.HUB	22:00	28.22
7/15/2014	DA LMP - Price	INDIANA.HUB	23:00	24.68
7/15/2014	DA LMP - Price	INDIANA.HUB	24:00:00	23.13
7/16/2014	DA LMP - Price	INDIANA.HUB	1:00	24.13
7/16/2014	DA LMP - Price	INDIANA.HUB	2:00	23.32
7/16/2014	DA LMP - Price	INDIANA.HUB	3:00	22.93
7/16/2014	DA LMP - Price	INDIANA.HUB	4:00	22.74
7/16/2014	DA LMP - Price	INDIANA.HUB	5:00	24.23
7/16/2014	DA LMP - Price	INDIANA.HUB	6:00	27.15
7/16/2014	DA LMP - Price	INDIANA.HUB	7:00	31.02
7/16/2014	DA LMP - Price	INDIANA.HUB	8:00	31.95
7/16/2014	DA LMP - Price	INDIANA.HUB	9:00	34.44
7/16/2014	DA LMP - Price	INDIANA.HUB	10:00	39.72
7/16/2014	DA LMP - Price	INDIANA.HUB	11:00	40.21
7/16/2014	DA LMP - Price	INDIANA.HUB	12:00	42.68
7/16/2014	DA LMP - Price	INDIANA.HUB	13:00	43.57
7/16/2014	DA LMP - Price	INDIANA.HUB	14:00	43.86
7/16/2014	DA LMP - Price	INDIANA.HUB	15:00	43.82
7/16/2014	DA LMP - Price	INDIANA.HUB	16:00	42.92
7/16/2014	DA LMP - Price	INDIANA.HUB	17:00	43.02
7/16/2014	DA LMP - Price	INDIANA.HUB	18:00	41.6
7/16/2014	DA LMP - Price	INDIANA.HUB	19:00	41.51
7/16/2014	DA LMP - Price	INDIANA.HUB	20:00	39.58
7/16/2014	DA LMP - Price	INDIANA.HUB	21:00	40.72
7/16/2014	DA LMP - Price	INDIANA.HUB	22:00	35.11
7/16/2014	DA LMP - Price	INDIANA.HUB	23:00	26.29
7/16/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.33
7/17/2014	DA LMP - Price	INDIANA.HUB	1:00	22.2
7/17/2014	DA LMP - Price	INDIANA.HUB	2:00	20.88
7/17/2014	DA LMP - Price	INDIANA.HUB	3:00	20.06
7/17/2014	DA LMP - Price	INDIANA.HUB	4:00	19.02
7/17/2014	DA LMP - Price	INDIANA.HUB	5:00	21.23
7/17/2014	DA LMP - Price	INDIANA.HUB	6:00	23.73
7/17/2014	DA LMP - Price	INDIANA.HUB	7:00	25.33
7/17/2014	DA LMP - Price	INDIANA.HUB	8:00	27.62
7/17/2014	DA LMP - Price	INDIANA.HUB	9:00	29.87
7/17/2014	DA LMP - Price	INDIANA.HUB	10:00	31.26

Trade Date	Price Type	Transaction Point	Per End	Price
7/17/2014	DA LMP - Price	INDIANA.HUB	11:00	33.38
7/17/2014	DA LMP - Price	INDIANA.HUB	12:00	34.93
7/17/2014	DA LMP - Price	INDIANA.HUB	13:00	34.48
7/17/2014	DA LMP - Price	INDIANA.HUB	14:00	35.65
7/17/2014	DA LMP - Price	INDIANA.HUB	15:00	35.03
7/17/2014	DA LMP - Price	INDIANA.HUB	16:00	36.88
7/17/2014	DA LMP - Price	INDIANA.HUB	17:00	37.1
7/17/2014	DA LMP - Price	INDIANA.HUB	18:00	35.27
7/17/2014	DA LMP - Price	INDIANA.HUB	19:00	35.51
7/17/2014	DA LMP - Price	INDIANA.HUB	20:00	32.65
7/17/2014	DA LMP - Price	INDIANA.HUB	21:00	32.27
7/17/2014	DA LMP - Price	INDIANA.HUB	22:00	29.91
7/17/2014	DA LMP - Price	INDIANA.HUB	23:00	25.03
7/17/2014	DA LMP - Price	INDIANA.HUB	24:00:00	24.33
7/18/2014	DA LMP - Price	INDIANA.HUB	1:00	23.34
7/18/2014	DA LMP - Price	INDIANA.HUB	2:00	23.02
7/18/2014	DA LMP - Price	INDIANA.HUB	3:00	21.97
7/18/2014	DA LMP - Price	INDIANA.HUB	4:00	21.62
7/18/2014	DA LMP - Price	INDIANA.HUB	5:00	22.87
7/18/2014	DA LMP - Price	INDIANA.HUB	6:00	26.55
7/18/2014	DA LMP - Price	INDIANA.HUB	7:00	27.67
7/18/2014	DA LMP - Price	INDIANA.HUB	8:00	30.65
7/18/2014	DA LMP - Price	INDIANA.HUB	9:00	31.71
7/18/2014	DA LMP - Price	INDIANA.HUB	10:00	35.27
7/18/2014	DA LMP - Price	INDIANA.HUB	11:00	39.57
7/18/2014	DA LMP - Price	INDIANA.HUB	12:00	41.64
7/18/2014	DA LMP - Price	INDIANA.HUB	13:00	42.22
7/18/2014	DA LMP - Price	INDIANA.HUB	14:00	42.89
7/18/2014	DA LMP - Price	INDIANA.HUB	15:00	43.45
7/18/2014	DA LMP - Price	INDIANA.HUB	16:00	42.88
7/18/2014	DA LMP - Price	INDIANA.HUB	17:00	43.37
7/18/2014	DA LMP - Price	INDIANA.HUB	18:00	40.76
7/18/2014	DA LMP - Price	INDIANA.HUB	19:00	38.38
7/18/2014	DA LMP - Price	INDIANA.HUB	20:00	34.84
7/18/2014	DA LMP - Price	INDIANA.HUB	21:00	34.26
7/18/2014	DA LMP - Price	INDIANA.HUB	22:00	32
7/18/2014	DA LMP - Price	INDIANA.HUB	23:00	25.63
7/18/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.35
7/19/2014	DA LMP - Price	INDIANA.HUB	1:00	24.16
7/19/2014	DA LMP - Price	INDIANA.HUB	2:00	21.72
7/19/2014	DA LMP - Price	INDIANA.HUB	3:00	21.49
7/19/2014	DA LMP - Price	INDIANA.HUB	4:00	21.41
7/19/2014	DA LMP - Price	INDIANA.HUB	5:00	21.42
7/19/2014	DA LMP - Price	INDIANA.HUB	6:00	21.52
7/19/2014	DA LMP - Price	INDIANA.HUB	7:00	22.87
7/19/2014	DA LMP - Price	INDIANA.HUB	8:00	25.53

Trade Date	Price Type	Transaction Point	Per End	Price
7/19/2014	DA LMP - Price	INDIANA.HUB	9:00	30.44
7/19/2014	DA LMP - Price	INDIANA.HUB	10:00	31.54
7/19/2014	DA LMP - Price	INDIANA.HUB	11:00	33.45
7/19/2014	DA LMP - Price	INDIANA.HUB	12:00	34.47
7/19/2014	DA LMP - Price	INDIANA.HUB	13:00	36.22
7/19/2014	DA LMP - Price	INDIANA.HUB	14:00	34.88
7/19/2014	DA LMP - Price	INDIANA.HUB	15:00	36.08
7/19/2014	DA LMP - Price	INDIANA.HUB	16:00	38.13
7/19/2014	DA LMP - Price	INDIANA.HUB	17:00	41.11
7/19/2014	DA LMP - Price	INDIANA.HUB	18:00	38.11
7/19/2014	DA LMP - Price	INDIANA.HUB	19:00	35.26
7/19/2014	DA LMP - Price	INDIANA.HUB	20:00	33.14
7/19/2014	DA LMP - Price	INDIANA.HUB	21:00	32.36
7/19/2014	DA LMP - Price	INDIANA.HUB	22:00	29.63
7/19/2014	DA LMP - Price	INDIANA.HUB	23:00	26.76
7/19/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.1
7/20/2014	DA LMP - Price	INDIANA.HUB	1:00	22.9
7/20/2014	DA LMP - Price	INDIANA.HUB	2:00	20.79
7/20/2014	DA LMP - Price	INDIANA.HUB	3:00	20.23
7/20/2014	DA LMP - Price	INDIANA.HUB	4:00	18.98
7/20/2014	DA LMP - Price	INDIANA.HUB	5:00	18.1
7/20/2014	DA LMP - Price	INDIANA.HUB	6:00	17.71
7/20/2014	DA LMP - Price	INDIANA.HUB	7:00	19.59
7/20/2014	DA LMP - Price	INDIANA.HUB	8:00	23.69
7/20/2014	DA LMP - Price	INDIANA.HUB	9:00	27.76
7/20/2014	DA LMP - Price	INDIANA.HUB	10:00	29.74
7/20/2014	DA LMP - Price	INDIANA.HUB	11:00	30.25
7/20/2014	DA LMP - Price	INDIANA.HUB	12:00	33.01
7/20/2014	DA LMP - Price	INDIANA.HUB	13:00	34.04
7/20/2014	DA LMP - Price	INDIANA.HUB	14:00	35.82
7/20/2014	DA LMP - Price	INDIANA.HUB	15:00	36.32
7/20/2014	DA LMP - Price	INDIANA.HUB	16:00	38.99
7/20/2014	DA LMP - Price	INDIANA.HUB	17:00	42.9
7/20/2014	DA LMP - Price	INDIANA.HUB	18:00	42.87
7/20/2014	DA LMP - Price	INDIANA.HUB	19:00	39.22
7/20/2014	DA LMP - Price	INDIANA.HUB	20:00	36.56
7/20/2014	DA LMP - Price	INDIANA.HUB	21:00	35.9
7/20/2014	DA LMP - Price	INDIANA.HUB	22:00	32.83
7/20/2014	DA LMP - Price	INDIANA.HUB	23:00	26.33
7/20/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.2
7/21/2014	DA LMP - Price	INDIANA.HUB	1:00	22.38
7/21/2014	DA LMP - Price	INDIANA.HUB	2:00	21.58
7/21/2014	DA LMP - Price	INDIANA.HUB	3:00	20.07
7/21/2014	DA LMP - Price	INDIANA.HUB	4:00	20.73
7/21/2014	DA LMP - Price	INDIANA.HUB	5:00	21.9
7/21/2014	DA LMP - Price	INDIANA.HUB	6:00	24.06

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Trade Date	Price Type	Transaction Point	Per End	Price
7/21/2014	DA LMP - Price	INDIANA.HUB	7:00	29.2
7/21/2014	DA LMP - Price	INDIANA.HUB	8:00	30.52
7/21/2014	DA LMP - Price	INDIANA.HUB	9:00	32.68
7/21/2014	DA LMP - Price	INDIANA.HUB	10:00	35.62
7/21/2014	DA LMP - Price	INDIANA.HUB	11:00	39.16
7/21/2014	DA LMP - Price	INDIANA.HUB	12:00	42.69
7/21/2014	DA LMP - Price	INDIANA.HUB	13:00	46.08
7/21/2014	DA LMP - Price	INDIANA.HUB	14:00	51.06
7/21/2014	DA LMP - Price	INDIANA.HUB	15:00	55.82
7/21/2014	DA LMP - Price	INDIANA.HUB	16:00	59.87
7/21/2014	DA LMP - Price	INDIANA.HUB	17:00	60.5
7/21/2014	DA LMP - Price	INDIANA.HUB	18:00	53.18
7/21/2014	DA LMP - Price	INDIANA.HUB	19:00	46.84
7/21/2014	DA LMP - Price	INDIANA.HUB	20:00	40.91
7/21/2014	DA LMP - Price	INDIANA.HUB	21:00	40.19
7/21/2014	DA LMP - Price	INDIANA.HUB	22:00	36.77
7/21/2014	DA LMP - Price	INDIANA.HUB	23:00	27.62
7/21/2014	DA LMP - Price	INDIANA.HUB	24:00:00	26.06
7/22/2014	DA LMP - Price	INDIANA.HUB	1:00	25.52
7/22/2014	DA LMP - Price	INDIANA.HUB	2:00	24.44
7/22/2014	DA LMP - Price	INDIANA.HUB	3:00	22.89
7/22/2014	DA LMP - Price	INDIANA.HUB	4:00	22.66
7/22/2014	DA LMP - Price	INDIANA.HUB	5:00	23.35
7/22/2014	DA LMP - Price	INDIANA.HUB	6:00	25.38
7/22/2014	DA LMP - Price	INDIANA.HUB	7:00	29
7/22/2014	DA LMP - Price	INDIANA.HUB	8:00	31.09
7/22/2014	DA LMP - Price	INDIANA.HUB	9:00	33.5
7/22/2014	DA LMP - Price	INDIANA.HUB	10:00	38.94
7/22/2014	DA LMP - Price	INDIANA.HUB	11:00	42.45
7/22/2014	DA LMP - Price	INDIANA.HUB	12:00	48.21
7/22/2014	DA LMP - Price	INDIANA.HUB	13:00	52.57
7/22/2014	DA LMP - Price	INDIANA.HUB	14:00	58.02
7/22/2014	DA LMP - Price	INDIANA.HUB	15:00	62.55
7/22/2014	DA LMP - Price	INDIANA.HUB	16:00	68.2
7/22/2014	DA LMP - Price	INDIANA.HUB	17:00	67
7/22/2014	DA LMP - Price	INDIANA.HUB	18:00	59.05
7/22/2014	DA LMP - Price	INDIANA.HUB	19:00	51.66
7/22/2014	DA LMP - Price	INDIANA.HUB	20:00	44.47
7/22/2014	DA LMP - Price	INDIANA.HUB	21:00	43.51
7/22/2014	DA LMP - Price	INDIANA.HUB	22:00	36.98
7/22/2014	DA LMP - Price	INDIANA.HUB	23:00	31.35
7/22/2014	DA LMP - Price	INDIANA.HUB	24:00:00	28.25
7/23/2014	DA LMP - Price	INDIANA.HUB	1:00	26.14
7/23/2014	DA LMP - Price	INDIANA.HUB	2:00	24.85
7/23/2014	DA LMP - Price	INDIANA.HUB	3:00	23.54
7/23/2014	DA LMP - Price	INDIANA.HUB	4:00	23.07

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Trade Date	Price Type	Transaction Point	Per End	Price
7/23/2014	DA LMP - Price	INDIANA.HUB	5:00	24.29
7/23/2014	DA LMP - Price	INDIANA.HUB	6:00	25.73
7/23/2014	DA LMP - Price	INDIANA.HUB	7:00	27.66
7/23/2014	DA LMP - Price	INDIANA.HUB	8:00	30.39
7/23/2014	DA LMP - Price	INDIANA.HUB	9:00	32.21
7/23/2014	DA LMP - Price	INDIANA.HUB	10:00	32.77
7/23/2014	DA LMP - Price	INDIANA.HUB	11:00	38.37
7/23/2014	DA LMP - Price	INDIANA.HUB	12:00	38.83
7/23/2014	DA LMP - Price	INDIANA.HUB	13:00	41.01
7/23/2014	DA LMP - Price	INDIANA.HUB	14:00	43.67
7/23/2014	DA LMP - Price	INDIANA.HUB	15:00	44.29
7/23/2014	DA LMP - Price	INDIANA.HUB	16:00	46.71
7/23/2014	DA LMP - Price	INDIANA.HUB	17:00	45.68
7/23/2014	DA LMP - Price	INDIANA.HUB	18:00	42.03
7/23/2014	DA LMP - Price	INDIANA.HUB	19:00	38.88
7/23/2014	DA LMP - Price	INDIANA.HUB	20:00	33.75
7/23/2014	DA LMP - Price	INDIANA.HUB	21:00	33.07
7/23/2014	DA LMP - Price	INDIANA.HUB	22:00	30.32
7/23/2014	DA LMP - Price	INDIANA.HUB	23:00	27.47
7/23/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.49
7/24/2014	DA LMP - Price	INDIANA.HUB	1:00	24.21
7/24/2014	DA LMP - Price	INDIANA.HUB	2:00	22.7
7/24/2014	DA LMP - Price	INDIANA.HUB	3:00	22.24
7/24/2014	DA LMP - Price	INDIANA.HUB	4:00	22
7/24/2014	DA LMP - Price	INDIANA.HUB	5:00	22.98
7/24/2014	DA LMP - Price	INDIANA.HUB	6:00	25.59
7/24/2014	DA LMP - Price	INDIANA.HUB	7:00	27.26
7/24/2014	DA LMP - Price	INDIANA.HUB	8:00	28.49
7/24/2014	DA LMP - Price	INDIANA.HUB	9:00	30.1
7/24/2014	DA LMP - Price	INDIANA.HUB	10:00	30.89
7/24/2014	DA LMP - Price	INDIANA.HUB	11:00	33.59
7/24/2014	DA LMP - Price	INDIANA.HUB	12:00	34.1
7/24/2014	DA LMP - Price	INDIANA.HUB	13:00	34.94
7/24/2014	DA LMP - Price	INDIANA.HUB	14:00	36.7
7/24/2014	DA LMP - Price	INDIANA.HUB	15:00	38.63
7/24/2014	DA LMP - Price	INDIANA.HUB	16:00	38.95
7/24/2014	DA LMP - Price	INDIANA.HUB	17:00	38
7/24/2014	DA LMP - Price	INDIANA.HUB	18:00	36.14
7/24/2014	DA LMP - Price	INDIANA.HUB	19:00	33.17
7/24/2014	DA LMP - Price	INDIANA.HUB	20:00	30.61
7/24/2014	DA LMP - Price	INDIANA.HUB	21:00	31.35
7/24/2014	DA LMP - Price	INDIANA.HUB	22:00	28.66
7/24/2014	DA LMP - Price	INDIANA.HUB	23:00	25.5
7/24/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.57
7/25/2014	DA LMP - Price	INDIANA.HUB	1:00	22.64
7/25/2014	DA LMP - Price	INDIANA.HUB	2:00	22.03

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Trade Date	Price Type	Transaction Point	Per End	Price
7/25/2014	DA LMP - Price	INDIANA.HUB	3:00	21.43
7/25/2014	DA LMP - Price	INDIANA.HUB	4:00	20.85
7/25/2014	DA LMP - Price	INDIANA.HUB	5:00	22.09
7/25/2014	DA LMP - Price	INDIANA.HUB	6:00	24.63
7/25/2014	DA LMP - Price	INDIANA.HUB	7:00	25.83
7/25/2014	DA LMP - Price	INDIANA.HUB	8:00	29.02
7/25/2014	DA LMP - Price	INDIANA.HUB	9:00	30.24
7/25/2014	DA LMP - Price	INDIANA.HUB	10:00	33
7/25/2014	DA LMP - Price	INDIANA.HUB	11:00	32.79
7/25/2014	DA LMP - Price	INDIANA.HUB	12:00	34.21
7/25/2014	DA LMP - Price	INDIANA.HUB	13:00	34.92
7/25/2014	DA LMP - Price	INDIANA.HUB	14:00	37.53
7/25/2014	DA LMP - Price	INDIANA.HUB	15:00	39.65
7/25/2014	DA LMP - Price	INDIANA.HUB	16:00	42.82
7/25/2014	DA LMP - Price	INDIANA.HUB	17:00	42.95
7/25/2014	DA LMP - Price	INDIANA.HUB	18:00	39.06
7/25/2014	DA LMP - Price	INDIANA.HUB	19:00	34.41
7/25/2014	DA LMP - Price	INDIANA.HUB	20:00	32.92
7/25/2014	DA LMP - Price	INDIANA.HUB	21:00	32.27
7/25/2014	DA LMP - Price	INDIANA.HUB	22:00	30.79
7/25/2014	DA LMP - Price	INDIANA.HUB	23:00	28.96
7/25/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.46
7/26/2014	DA LMP - Price	INDIANA.HUB	1:00	24.48
7/26/2014	DA LMP - Price	INDIANA.HUB	2:00	22.92
7/26/2014	DA LMP - Price	INDIANA.HUB	3:00	22.04
7/26/2014	DA LMP - Price	INDIANA.HUB	4:00	21.72
7/26/2014	DA LMP - Price	INDIANA.HUB	5:00	21.58
7/26/2014	DA LMP - Price	INDIANA.HUB	6:00	22.13
7/26/2014	DA LMP - Price	INDIANA.HUB	7:00	23.16
7/26/2014	DA LMP - Price	INDIANA.HUB	8:00	27.8
7/26/2014	DA LMP - Price	INDIANA.HUB	9:00	30.52
7/26/2014	DA LMP - Price	INDIANA.HUB	10:00	32.06
7/26/2014	DA LMP - Price	INDIANA.HUB	11:00	33.5
7/26/2014	DA LMP - Price	INDIANA.HUB	12:00	36.81
7/26/2014	DA LMP - Price	INDIANA.HUB	13:00	38.22
7/26/2014	DA LMP - Price	INDIANA.HUB	14:00	41.03
7/26/2014	DA LMP - Price	INDIANA.HUB	15:00	43.09
7/26/2014	DA LMP - Price	INDIANA.HUB	16:00	47.87
7/26/2014	DA LMP - Price	INDIANA.HUB	17:00	48.69
7/26/2014	DA LMP - Price	INDIANA.HUB	18:00	47.78
7/26/2014	DA LMP - Price	INDIANA.HUB	19:00	40.29
7/26/2014	DA LMP - Price	INDIANA.HUB	20:00	36.46
7/26/2014	DA LMP - Price	INDIANA.HUB	21:00	37.93
7/26/2014	DA LMP - Price	INDIANA.HUB	22:00	30.8
7/26/2014	DA LMP - Price	INDIANA.HUB	23:00	29.97
7/26/2014	DA LMP - Price	INDIANA.HUB	24:00:00	27.51

Trade Date	Price Type	Transaction Point	Per End	Price
7/27/2014	DA LMP - Price	INDIANA.HUB	1:00	24.49
7/27/2014	DA LMP - Price	INDIANA.HUB	2:00	22.49
7/27/2014	DA LMP - Price	INDIANA.HUB	3:00	21.31
7/27/2014	DA LMP - Price	INDIANA.HUB	4:00	21.42
7/27/2014	DA LMP - Price	INDIANA.HUB	5:00	21.17
7/27/2014	DA LMP - Price	INDIANA.HUB	6:00	20.81
7/27/2014	DA LMP - Price	INDIANA.HUB	7:00	22.6
7/27/2014	DA LMP - Price	INDIANA.HUB	8:00	24.15
7/27/2014	DA LMP - Price	INDIANA.HUB	9:00	26.9
7/27/2014	DA LMP - Price	INDIANA.HUB	10:00	30.03
7/27/2014	DA LMP - Price	INDIANA.HUB	11:00	31.75
7/27/2014	DA LMP - Price	INDIANA.HUB	12:00	33.95
7/27/2014	DA LMP - Price	INDIANA.HUB	13:00	37.79
7/27/2014	DA LMP - Price	INDIANA.HUB	14:00	40.43
7/27/2014	DA LMP - Price	INDIANA.HUB	15:00	41.05
7/27/2014	DA LMP - Price	INDIANA.HUB	16:00	42.71
7/27/2014	DA LMP - Price	INDIANA.HUB	17:00	42.43
7/27/2014	DA LMP - Price	INDIANA.HUB	18:00	39.43
7/27/2014	DA LMP - Price	INDIANA.HUB	19:00	36.99
7/27/2014	DA LMP - Price	INDIANA.HUB	20:00	32.44
7/27/2014	DA LMP - Price	INDIANA.HUB	21:00	32.68
7/27/2014	DA LMP - Price	INDIANA.HUB	22:00	30.17
7/27/2014	DA LMP - Price	INDIANA.HUB	23:00	26.47
7/27/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.73
7/28/2014	DA LMP - Price	INDIANA.HUB	1:00	23.88
7/28/2014	DA LMP - Price	INDIANA.HUB	2:00	22.68
7/28/2014	DA LMP - Price	INDIANA.HUB	3:00	22.47
7/28/2014	DA LMP - Price	INDIANA.HUB	4:00	22.18
7/28/2014	DA LMP - Price	INDIANA.HUB	5:00	23.17
7/28/2014	DA LMP - Price	INDIANA.HUB	6:00	25.58
7/28/2014	DA LMP - Price	INDIANA.HUB	7:00	27.56
7/28/2014	DA LMP - Price	INDIANA.HUB	8:00	29.2
7/28/2014	DA LMP - Price	INDIANA.HUB	9:00	30.7
7/28/2014	DA LMP - Price	INDIANA.HUB	10:00	31.9
7/28/2014	DA LMP - Price	INDIANA.HUB	11:00	32.52
7/28/2014	DA LMP - Price	INDIANA.HUB	12:00	34.15
7/28/2014	DA LMP - Price	INDIANA.HUB	13:00	36
7/28/2014	DA LMP - Price	INDIANA.HUB	14:00	38.52
7/28/2014	DA LMP - Price	INDIANA.HUB	15:00	40.53
7/28/2014	DA LMP - Price	INDIANA.HUB	16:00	40.77
7/28/2014	DA LMP - Price	INDIANA.HUB	17:00	40.44
7/28/2014	DA LMP - Price	INDIANA.HUB	18:00	36.37
7/28/2014	DA LMP - Price	INDIANA.HUB	19:00	32.72
7/28/2014	DA LMP - Price	INDIANA.HUB	20:00	30.78
7/28/2014	DA LMP - Price	INDIANA.HUB	21:00	31.45
7/28/2014	DA LMP - Price	INDIANA.HUB	22:00	29.59

Trade Date	Price Type	Transaction Point	Per End	Price
7/28/2014	DA LMP - Price	INDIANA.HUB	23:00	25.84
7/28/2014	DA LMP - Price	INDIANA.HUB	24:00:00	24.68
7/29/2014	DA LMP - Price	INDIANA.HUB	1:00	23.65
7/29/2014	DA LMP - Price	INDIANA.HUB	2:00	22.62
7/29/2014	DA LMP - Price	INDIANA.HUB	3:00	21.57
7/29/2014	DA LMP - Price	INDIANA.HUB	4:00	21.36
7/29/2014	DA LMP - Price	INDIANA.HUB	5:00	22.22
7/29/2014	DA LMP - Price	INDIANA.HUB	6:00	23.58
7/29/2014	DA LMP - Price	INDIANA.HUB	7:00	25.6
7/29/2014	DA LMP - Price	INDIANA.HUB	8:00	28.87
7/29/2014	DA LMP - Price	INDIANA.HUB	9:00	29.08
7/29/2014	DA LMP - Price	INDIANA.HUB	10:00	30.31
7/29/2014	DA LMP - Price	INDIANA.HUB	11:00	31.62
7/29/2014	DA LMP - Price	INDIANA.HUB	12:00	33.41
7/29/2014	DA LMP - Price	INDIANA.HUB	13:00	34.36
7/29/2014	DA LMP - Price	INDIANA.HUB	14:00	35.44
7/29/2014	DA LMP - Price	INDIANA.HUB	15:00	36.32
7/29/2014	DA LMP - Price	INDIANA.HUB	16:00	37.31
7/29/2014	DA LMP - Price	INDIANA.HUB	17:00	38.19
7/29/2014	DA LMP - Price	INDIANA.HUB	18:00	34.94
7/29/2014	DA LMP - Price	INDIANA.HUB	19:00	32.57
7/29/2014	DA LMP - Price	INDIANA.HUB	20:00	30.69
7/29/2014	DA LMP - Price	INDIANA.HUB	21:00	31.48
7/29/2014	DA LMP - Price	INDIANA.HUB	22:00	29.42
7/29/2014	DA LMP - Price	INDIANA.HUB	23:00	26.07
7/29/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.29
7/30/2014	DA LMP - Price	INDIANA.HUB	1:00	21.98
7/30/2014	DA LMP - Price	INDIANA.HUB	2:00	20.74
7/30/2014	DA LMP - Price	INDIANA.HUB	3:00	20.1
7/30/2014	DA LMP - Price	INDIANA.HUB	4:00	19.71
7/30/2014	DA LMP - Price	INDIANA.HUB	5:00	20.88
7/30/2014	DA LMP - Price	INDIANA.HUB	6:00	23.43
7/30/2014	DA LMP - Price	INDIANA.HUB	7:00	24.5
7/30/2014	DA LMP - Price	INDIANA.HUB	8:00	27.01
7/30/2014	DA LMP - Price	INDIANA.HUB	9:00	29.09
7/30/2014	DA LMP - Price	INDIANA.HUB	10:00	29.63
7/30/2014	DA LMP - Price	INDIANA.HUB	11:00	31.43
7/30/2014	DA LMP - Price	INDIANA.HUB	12:00	32.34
7/30/2014	DA LMP - Price	INDIANA.HUB	13:00	32.96
7/30/2014	DA LMP - Price	INDIANA.HUB	14:00	34.59
7/30/2014	DA LMP - Price	INDIANA.HUB	15:00	35.64
7/30/2014	DA LMP - Price	INDIANA.HUB	16:00	36.17
7/30/2014	DA LMP - Price	INDIANA.HUB	17:00	36
7/30/2014	DA LMP - Price	INDIANA.HUB	18:00	33.64
7/30/2014	DA LMP - Price	INDIANA.HUB	19:00	31.99
7/30/2014	DA LMP - Price	INDIANA.HUB	20:00	30.29

Trade Date	Price Type	Transaction Point	Per End	Price
7/30/2014	DA LMP - Price	INDIANA.HUB	21:00	30.4
7/30/2014	DA LMP - Price	INDIANA.HUB	22:00	28.85
7/30/2014	DA LMP - Price	INDIANA.HUB	23:00	25.35
7/30/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.32
7/31/2014	DA LMP - Price	INDIANA.HUB	1:00	23.16
7/31/2014	DA LMP - Price	INDIANA.HUB	2:00	22.47
7/31/2014	DA LMP - Price	INDIANA.HUB	3:00	22.15
7/31/2014	DA LMP - Price	INDIANA.HUB	4:00	21.79
7/31/2014	DA LMP - Price	INDIANA.HUB	5:00	23.59
7/31/2014	DA LMP - Price	INDIANA.HUB	6:00	24.94
7/31/2014	DA LMP - Price	INDIANA.HUB	7:00	25.7
7/31/2014	DA LMP - Price	INDIANA.HUB	8:00	28.71
7/31/2014	DA LMP - Price	INDIANA.HUB	9:00	28.42
7/31/2014	DA LMP - Price	INDIANA.HUB	10:00	29.72
7/31/2014	DA LMP - Price	INDIANA.HUB	11:00	32.42
7/31/2014	DA LMP - Price	INDIANA.HUB	12:00	35.09
7/31/2014	DA LMP - Price	INDIANA.HUB	13:00	36.35
7/31/2014	DA LMP - Price	INDIANA.HUB	14:00	37.66
7/31/2014	DA LMP - Price	INDIANA.HUB	15:00	38.9
7/31/2014	DA LMP - Price	INDIANA.HUB	16:00	40.68
7/31/2014	DA LMP - Price	INDIANA.HUB	17:00	40.09
7/31/2014	DA LMP - Price	INDIANA.HUB	18:00	37.83
7/31/2014	DA LMP - Price	INDIANA.HUB	19:00	36.28
7/31/2014	DA LMP - Price	INDIANA.HUB	20:00	33.09
7/31/2014	DA LMP - Price	INDIANA.HUB	21:00	33.11
7/31/2014	DA LMP - Price	INDIANA.HUB	22:00	29.08
7/31/2014	DA LMP - Price	INDIANA.HUB	23:00	26.53
7/31/2014	DA LMP - Price	INDIANA.HUB	24:00:00	25.78

**BIG RIVERS ELECTRIC CORPORATION**

**2014 INTEGRATED RESOURCE PLAN  
OF BIG RIVERS ELECTRIC CORPORATION  
CASE NO. 2014-00166**

**Response to Ben Taylor and Sierra Club's  
Initial Request for Information  
Dated August 20, 2014**

**September 10, 2014**

- 1   **Item 35)      For each of the Wilson, Green, Coleman, Reid, and HMP&L generating**
- 2   **units:**
- 3       **a) Identify the estimated retirement date.**
- 4       **b) Produce any analysis or assessment of the economics of continued operation**
- 5       **of such unit.**
- 6       **c) Produce the most recent condition assessment for each unit.**
- 7       **d) Produce any analysis or assessment of the impact that retirement of each unit**
- 8       **would have on capacity adequacy, transmission grid stability, transmission**
- 9       **grid support, voltage support, or transmission system reliability.**
- 10      **e) Identify any transmission grid upgrades or changes that would be needed to**
- 11      **allow for the retirement of any of the units.**
- 12      **f) Produce any analysis or assessment of the need for the continued operation**
- 13      **of each unit.**
- 14      **g) Provide the remaining book value (plant balance) at the start of 2014.**
- 15      **h) Provide the estimated market value of each unit at the start of 2014.**
- 16      **i) Describe how Big Rivers estimated the market value of each unit.**
- 17
- 18   **Response)**

**Case No. 2014-00166**

**Response to SC 1-35**

**Witness: Duane E. Braunecker, Christopher Bradley, Nicholas Castlen**

**Page 1 of 3**

**BIG RIVERS ELECTRIC CORPORATION**

**2014 INTEGRATED RESOURCE PLAN  
OF BIG RIVERS ELECTRIC CORPORATION  
CASE NO. 2014-00166**

**Response to Ben Taylor and Sierra Club's  
Initial Request for Information  
Dated August 20, 2014**

**September 10, 2014**

- 1       a) Please see Big Rivers' response to KIUC 1-46 in CN 2013-00199.
- 2       b) Please see Big Rivers' response to KIUC 1-46 in CN 2013-00199.
- 3       c) Please see the November 2012 Depreciation Study that was provided as Exhibit  
4                   Kelly-1 in the Direct Testimony of Mr. Ted J. Kelly in Case No. 2012-00535.
- 5       d) Big Rivers has performed no studies to assess the impact that unit retirements  
6                   would have on capacity adequacy, transmission grid stability, transmission grid  
7                   support, voltage support, or transmission system reliability. However, Big Rivers  
8                   is required to file an Attachment Y with MISO prior to retiring or suspending the  
9                   operation of any unit, at which time MISO will perform such an analysis. MISO  
10                  will also perform an informational Attachment Y-2 study if requested. Redacted  
11                  Attachment Y study reports for the Coleman units and for Wilson are attached,  
12                  and a redacted Green units Attachment Y-2 report is provided in the folder SC 1-  
13                  35 on the electronic media accompanying these responses.
- 14       e) As indicated in the MISO Attachment Y study report, the Coleman units were  
15                  initially designated as SSR units until Century installed the necessary equipment  
16                  to eliminate the SSR condition. No transmission grid upgrades or changes were  
17                  identified in the Green and Wilson study reports.
- 18       f) Please see Big Rivers' response to KIUC 1-46 in CN 2013-00199.

**Case No. 2014-00166**

**Response to SC 1-35**

**Witness: Duane E. Braunecker, Christopher Bradley, Nicholas Castlen**

**Page 2 of 3**

**BIG RIVERS ELECTRIC CORPORATION**

**2014 INTEGRATED RESOURCE PLAN  
OF BIG RIVERS ELECTRIC CORPORATION  
CASE NO. 2014-00166**

**Response to Ben Taylor and Sierra Club's  
Initial Request for Information  
Dated August 20, 2014**

**September 10, 2014**

- 1       g) Please see attachment displaying the Big Rivers' remaining book value at the start
- 2              of 2014.
- 3       h) Please see Big Rivers' responses to SC 2-6 and PSC 2-18 in Case No. 2012-
- 4              00535
- 5       i) Please see response to part h above.

6

7   **Witness)**      Duane E. Braunecker, Christopher Bradley, Nicholas Castlen

**Case No. 2014-00166**

**Response to SC 1-35**

**Witness: Duane E. Braunecker, Christopher Bradley, Nicholas Castlen**

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**Attachment Y-2 Study  
Green Unit 1&2: 454 MW Coal  
24 Month Suspension  
2/1/2014 – 2/1/2016**

# **ATTACHMENT Y-2 STUDY REPORT**

September 30, 2013

**PUBLIC/REDACTED**

## **EXECUTIVE SUMMARY**

An Attachment Y2 Request submitted by the Big Rivers Electric Corporation (BREC) was received on April 23, 2013; the Letter Agreement Addendum for this Y2 Request was received on June 18, 2013. The request was for suspension of Green Unit 1&2 from February 1, 2014 until February 1, 2016. The results of the Attachment Y-2 study are not definitive and the analysis is intended to provide information to the Market Participant (MP) to assist them in evaluating their options.

After being reviewed for Transmission System reliability impacts as provided for under Section 38.2.7 of MISO's Open Access Transmission, Energy & Operating Reserve Markets Tariff ("Tariff"), no reliability issue was identified for Green generating station Unit 1&2 suspension that would require the units to be designated as System Support Resources (SSR) units

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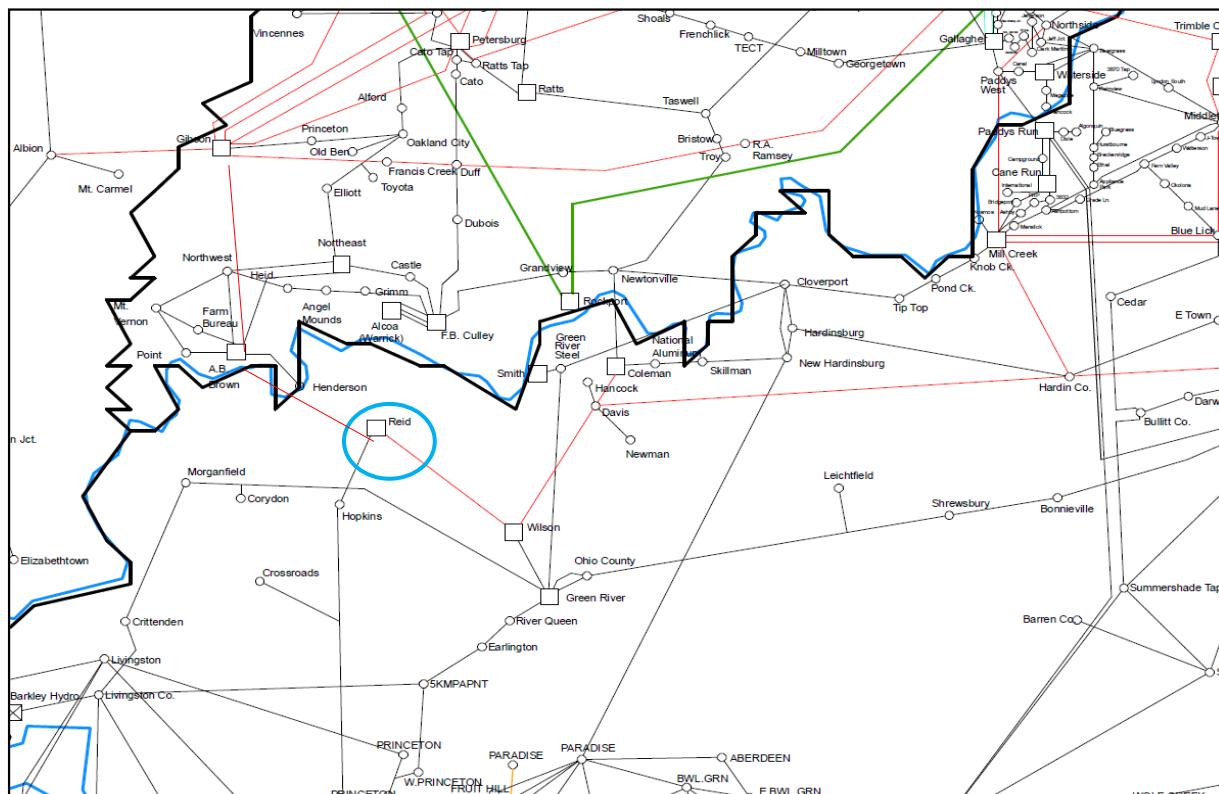
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## I. INTRODUCTION

Big Rivers Electric Corporation, submitted an Attachment Y-2 “Request for Non-Binding Study Regarding Potential SSR Status” to MISO for the consideration of suspending the Green generating station effective from February 1st, 2014 to February 1st, 2016. The Attachment Y-2 Request is for an informational study to evaluate the potential for a unit to be designated as an SSR and does not commit the Market Participant to proceed with plans to Retire or Suspend. The purpose of this study is to assess the reliability impacts from the potential suspension of the Green Station coal generation located in Robards, KY. The analysis included the evaluation of various scenarios that considered the status of nearby Coleman and Wilson generating plants as well as the impact of large industrial customer load in the area.

**Table 1: Units Requesting Retirement/Suspension**

Power Flow Area	Unit Description	Total MW	Start Date of Retirement/Suspension	Return Date of Suspension
Big Rivers Electric Corporation	Green Station 1	231	02/01/2014	02/01/2016
Big Rivers Electric Corporation	Green Station 2	223	02/01/2014	02/01/2016



**Figure 1: General Location of Green Station**

## **II. STUDY OBJECTIVES**

Under Section 38.2.7 the MISO Tariff, System Support Resource (SSR) procedures provide a mechanism for MISO to enter into agreements with Market Participants (MP) that own or operate Generation Resources or Synchronous Condenser Units (SCUs) that have requested to either Retire or Suspend, but are required to maintain system reliability.

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

## **III. MODELS AND ASSUMPTIONS**

Corresponding to the anticipated suspension of the Green Station Unit 1&2, the following power system analysis models were used for the study:

- 2014 Summer Peak

The Attachment Y2 study models were created in accordance with the MISO Transmission Planning Business Practice Manual (BPM-020-r9) Section 6.2.2. This includes creating a set of Security Constrained Economic Dispatch (SCED) models from each source model in which the units being studied are taken out of service to represent the “After” retirement scenario. To create the “Before” retirement scenario, generation in MISO was scaled down in each model and then the to-be-retired unit was fully dispatched.

### **a. Model Assumptions**

1. None

### **b. Transmission Projects**

1. None

### **c. Monitoring and Contingencies**

Monitor: BREC(Big Rivers Electric Corporation), SIPC(Southern Illinois Power Cooperative), SIGE(Southern Indiana Gas & Electric Company)(Vectren) , HE(Hoosier Energy), DEI(Duke Energy Indiana), LGEE(Louisville Gas and Electric Company) and TVA(Tennessee Valley Authority) Control Areas 69 kV – 999 kV

Contingencies: BREC, SIPC, SIGE, DEI, LGEE and TVA NERC Category B, C1, C2 & C5 for 100 kV and above facilities. Category B 69 kV contingencies adjacent to the generator was studied. Category C3's in BREC area was studied.

## **IV. STUDY CRITERIA AND METHODOLOGY**

PSS/E and MUST were used to perform AC contingency analysis. Cases were solved with automatic control of LTCs, phase shifters, DC taps, switched shunts enabled (regulating), and area interchange disabled. Contingency analysis was performed on before and after cases. The results were compared to find if there were any criteria violations due to the unit(s) change of status.

### **a. Steady State Thermal and Voltage Criteria**

#### **Transmission Owners Planning Criteria**

BREC Transmission Planning Criteria applied for the thermal analysis:

- For system-intact, B, & C contingencies, all thermal loadings exceeding 100% of the normal rating for BREC System

BREC Transmission Planning Criteria applied for the voltage analysis:

- For system-intact, >60 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies
  - 69 kV substation voltages less than 91.7% or above 105.8%
  - >69 kV substation voltages less than 92% or above 105%

DEI Transmission Planning Criteria applied for the thermal analysis:

- For system-intact, all thermal loadings exceeding 100% of the continuous thermal loading capability for DEI System
- For B & C contingencies, all thermal loadings exceeding 100% of the emergency loading capability for DEI System

DEI Transmission Planning Criteria applied for the voltage analysis:

- For system-intact
  - 345 kV substation voltages less than 95% or above 105%
  - 230 kV substation voltages less than 95% or above 107%
  - 138 kV substation voltages less than 95% or above 105%
  - 132 kV substation voltages less than 95% or above 107.5%
  - 69 kV substation voltages less than 95% or above 105%
  - 66 kV substation voltages less than 95% or above 107.5%
- For Category B and C contingencies
  - 345 kV substation voltages less than 90% or above 105%
  - 230 kV substation voltages less than 90% or above 107%
  - 138 kV substation voltages less than 90% or above 105%
  - 132 kV substation voltages less than 90% or above 107.5%
  - 69 kV substation voltages less than 90% or above 105%
  - 66 kV substation voltages less than 90% or above 107.5%

SIPC Transmission Planning Criteria applied for the thermal analysis:

- For system-intact, B, & C contingencies, all thermal loadings exceeding 100% of the normal rating for SIPC System

SIPC Transmission Planning Criteria applied for the voltage analysis:

- For system-intact, >60 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >60 kV substation voltages less than 91% or above 109%

SIGE Transmission Planning Criteria applied for the thermal analysis:

- For system-untact, Category B, & C contingencies, all thermal loadings exceeding 100% of the normal rating

SIGE Transmission Planning Criteria applied for the voltage analysis:

- For system-intact, >60 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >60 kV substation voltages less than 90% or above 110%

HE Transmission Planning Criteria applied for the thermal analysis:

- For system-untact, Category B, & C contingencies, all thermal loadings exceeding 100% of the normal rating

HE Transmission Planning Criteria applied for the voltage analysis:

- For system-intact, >60 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >60 kV substation voltages less than 90% or above 110%

LGEET Transmission Planning Criteria applied for the thermal analysis:

- For system-untact, Category B, & C contingencies, all thermal loadings exceeding 100% of the normal rating

LGEET Transmission Planning Criteria applied for the voltage analysis:

- For system-intact, >60 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >60 kV substation voltages less than 90% or above 110%

TVA Transmission Planning Criteria applied for the thermal analysis:

- For system-untact, Category B, & C contingencies, all thermal loadings exceeding 100% of the normal rating

TVA Transmission Planning Criteria applied for the voltage analysis:

- For system-intact, >60 kV substation voltages less than 95% or above 105%

- For Category B and C contingencies, >60 kV substation voltages less than 90% or above 110%

## b. MISO Transmission Planning BPM - SSR Criteria

As specified in the MISO BPM-020-r6, the System Support Resource criteria for determining if an identified facility is impacted by the generator change of status will be:

- Under system intact and category B contingencies, branch thermal violations are only valid if the flow increase on the element in the “after” retirement scenario is equal to or greater than:
  - a) 5% of the “to-be-retired” unit(s) MW amount (i.e. 5% PTDF) for a “base” violation compared with the “before” retirement scenario, or
  - b) 3% of the “to-be-retired” unit(s) amount (i.e. 3% OTDF) for a “contingency” violation compared with the “before” retirement scenario.
- Under system intact and category B contingencies, high and low voltage violations are only valid if the change in voltage is greater than 1% as compared to the “before” retirement voltage calculation.

## c. Contingencies

A subset of the MISO Transmission Expansion Plan (MTEP) contingencies in BREC and the neighboring control area was used for AC contingency analysis.

The following NERC Categories of contingencies were evaluated:

1. Category A when the system is under normal conditions.
2. Category B contingencies resulting in the loss of a single element.
3. Category C contingencies resulting in the loss of two or more (multiple) elements.

## d. Steady State Performance Analysis

AC contingency analysis will be performed using Siemens MUST and PSS/E.

Contingency analysis will be performed on before and after cases. Results will be compared to find if there are any criteria violations due to the suspension of study units.

The requested study scenarios are listed in Table below.

Scenario	Wilson Generator Laid-up	Coleman Generator Laid-up	Century Load(MW)	Alcan Load(MW)
1B	N	N	482 - Note A1	368 (per MECT) + 22
1C	N	N	482 - Note A1	0 - Note B
2B	Y	N	482 - Note A1	368 (per MECT) + 22
2C	Y	N	482 - Note A1	0 - Note B
3B	N	Y	Base Load - Note A2	368 (per MECT) + 22
3C	N	Y	Base Load - Note A2	0 - Note B
3E	N	Y	0 (per MECT)	368 (per MECT) + 22
3F	N	Y	0 (per MECT)	0 - Note B

Note

- The demand and energy forecasts submitted to MISO on November 1, 2012, via the New MECT tool reflect Century load dropping from 482 MW at a 0.98 load factor on August 19, 2013 to 0 MW on Augus 20, 2013
- Alcan load at 368 MW at a 0.98 load factor. However, for
  - Scenarios 1A, 1D, 2A, 2D, 3A and 3D add 10 MW to Alcan for a total of 378 MW at a 0.98 load factor
  - Scenarios 1B, 1F, 2B, 2F, 3B and 3F add 22 MW to Alcan for a total of 390 MW at a 0.98 load factor

Note A1

- Add a Century load of 482 MW at a 0.98 load factor continuing after August 19, 2013 to the demand and energy forecasts submitted to MISO on November 1, 2012 via the New MECT tool. The load shape is a flat line.

Note A2

- The Load level determined in Coleman SSR study will be used to exclude reliability constraints caused by Coleman Units Suspension.

Note B

- Subtract an Alcan load of 358 MW at a 0.98 load factor after January 30, 2014 from the demand and energy forecasts submitted to MISO on November 1, 2012 via the New MECT tool. The load shape is a flat line.
- Wilson generator is CPNode BREC.WILSON1
- Coleman 1, 2 and 3 generators are CPNodes BREC.COLE1, BREC.COLE2 and BREC.COLE3
- Century Load is presently represented at the following EPNodes under the BREC.BREC CPNode
  - L BREC COLEMABR NSA0
  - L BREC COLEMABR NSA1
  - L BREC COLEMABR NSA2
  - L BREC COLEMABR NSA3
  - L BREC COLEMABR NSA4
- Based on MISO Commercial Model changes requested by Big Rivers on March 15, the above Century nodes will be aggregated on Aug 20, 2013 to create a new CPNode called BREC.CENTURY under separate AO: BR\_CENTAO
- Alcan Load is presently represented at the following EPNodes under the BREC.BREC CPNode
  - L BREC REID ALC1
  - L BREC REID ALC2
  - L BREC REID ALC3
  - L BREC REID ALC8

## V. STUDY RESULTS

### a. Branch Results (Appendix A Table 1a)

All the requested scenarios have been studied. Total 13 constraints were identified in scenario 1B, 3B and 3E.

Table 1a in Appendix A shows contingent conditions causing branch criteria violations without Green Station Units 1 and 2. Contingent events causing branch violations include NERC Categories B, C1, C2, and C3.

### b. Voltage Results (Appendix A Table 1b)

Table 1b in Appendix A shows contingent conditions causing criteria violations without Green Station Unit 1&2. Contingent events causing voltage criteria violations include NERC Categories B, C1, C2, and C3. High voltage violations were identified in scenario 1C, 2B and 3F, the high violation can be mitigated by capacitor switching or generator adjustments.

## VI. ALTERNATIVES ANALYSIS

### a. New Generation or Generation Redispatch

Generation re-dispatch solution was identified to mitigate the thermal constraints identified in this study. Table below shows 13 Category B constraints identified in this study. Generation re-dispatch solutions are identified to mitigate the overload. Per customer request, load shedding and turning on Green Station Unit mitigation measures were tested and effective mitigations were identified for each constraint per request. The total four mitigation measures are listed as below,

- Generation re-dispatch
- Optimal load shedding
- Alcan Load shedding
- Turn on Green Station Generator

Transmission Owner's comments are also listed in the table below. System reconfiguration and standing operating guide are also identified as mitigation.

Model	Contingency Description	Limiting Element	Type	Rating	Loading%	MISO Comments	Optional Mitigation Requested by Y2 Study Customer	
							Alcon Load Shedding (MW)	Required Green Generation (MW)
2014SP_1B	[REDACTED]	340560 5HENDR 161 340617 4HENDR 138 1	TR	224	106.7	Caused By Study Generator, mitigated by reducing AB Brown generation by 113.13 MW	50.26	50.26
2014SP_1B	[REDACTED]	253621 10ABB_R 138 340617 4HENDR 138 1	LN	239	100.3	Caused By Study Generator, mitigated by reducing AB Brown generation by 113.13 MW	50.26	50.26
2014SP_3B	[REDACTED]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.94	245.94
2014SP_3B	[REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.94	245.94

Model	Contingency Description	Limiting Element	Type	Rating	Loading%	MISO Comments	Optional Mitigation Requested by Y2 Study Customer	
							Alcon Load Shedding (MW)	Required Green Generation (MW)
2014SP_3B	[REDACTED]	340560 5HENDR 161 340617 4HENDR 138 1	TR	224	106.2	Caused By Study Generator, mitigated by reducing AB Brown generation by 107.64 MW	46.4	46.4
2014SP_3B	[REDACTED]	253621 10ABB_R 138 340617 4HENDR 138 1	LN	239	101	Caused By Study Generator, mitigated by reducing AB Brown generation by 107.64 MW	46.4	46.4
2014SP_3B	[REDACTED]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.94	245.94
2014SP_3B	[REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.94	245.94

Model	Contingency Description	Limiting Element	Type	Rating	Loading%	MISO Comments	Optional Mitigation Requested by Y2 Study Customer	
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2014SP_3B	[REDACTED]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.96	245.96
2014SP_3B	[REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.96	245.96

Model	Contingency Description	Limiting Element	Type	Rating	Loading%	MISO Comments	Optional Mitigation Requested by Y2 Study Customer	
							Alcon Load Shedding (MW)	Required Green Generation (MW)
2014SP_3B	[REDACTED]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.96	245.96
2014SP_3B	[REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	106.8	Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW	245.96	245.96
2014SP_3E	[REDACTED]	340560 5HENDR 161 340617 4HENDR 138 1	TR	224	107	Caused By Study Generator, mitigated by reducing AB Brown generation by 112.44 MW	53.26	53.26

Contingency [REDACTED]

Open branch [REDACTED]

Open branch [REDACTED]

Open branch [REDACTED]

end

Contingency [REDACTED]

Open branch [REDACTED]

end

Contingency [REDACTED]

Open branch [REDACTED]

Open branch [REDACTED]

Open branch [REDACTED]

end

Contingency [REDACTED]

Open branch [REDACTED]

Open branch [REDACTED]

end

Contingency [REDACTED]

Open branch [REDACTED]

Open branch [REDACTED]

end

**b. System Reconfiguration and Operation Guidelines**

System reconfiguration measures were identified to mitigate overload on AB Brown to Henderson County Substation 138kV branch.

Operation guide [REDACTED] and [REDACTED] were identified to mitigate Newtonville – Coleman 161 kV overload and low voltage issue in Coleman area.

**c. Demand Response or Load Curtailment**

No demand response alternative is necessary.

**d. Transmission Projects**

No transmission system reinforcements have been identified.

## VII. CONCLUSION

The suspension of the Green Generating Station Unit 1&2 was assessed for reliability impacts on the Transmission System and documented in this report. No reliability issues were identified in the requested scenarios.

After being reviewed for Transmission System reliability impacts as provided for under Section 38.2.7 of MISO's Open Access Transmission, Energy & Operating Reserve Markets Tariff ("Tariff"), no reliability issue was identified for Green generating station Unit 1&2 suspension that would require the units to be designated as a System Support Resource (SSR) units.

## VIII. APPENDICES

**Appendix A:** Steady-State AC Contingency Results

Table 1a: Branch Results

Table 1b: Voltage Results

## **Appendix A**

### **Steady-State AC Contingency Analysis Results**

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)
2014SP_3B	23 [REDACTED]	248435 07NWTVL1 161 253580 10NTVL16	16LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -26 MW 253627 10CAN_G3 210 SIGE Fb Culley Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW
2014SP_3B	23 [REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN	16LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Fb Culley Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW
2014SP_3B	6 [REDACTED]	248435 07NWTVL1 161 253580 10NTVL16	16LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments
			** From bus	** * To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)
2014SP_3B	6 [REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN	16LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW
2014SP_3B	7 [REDACTED]	248435 07NWTVL1 161 253580 10NTVL16	16LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW
2014SP_3B	7 [REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN	16LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)
2014SP_3B	5 [REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW
2014SP_3B	5 [REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN	335	357.7	199.7	106.8	314.8	165.7	94	42.9	9.449339207		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload.  MISO Comments: Caused By Study Generator, mitigated by generation redispatch the following generator: 253625 10CAN_G1 210 SIGE Cannelton Unit 1 Redispatch: -28 MW 253626 10CAN_G2 210 SIGE Cannelton Unit 2 Redispatch: -28 MW 253627 10CAN_G3 210 SIGE Cannelton Unit 3 Redispatch: -26 MW 253503 10CUL_G3 210 SIGE Fb Culley Unit 3 Redispatch: -170 MW 248893 07LCPGD1 207 HE Lawrence County Ct Bank #1 Redispatch: -44.82 MW
2014SP_3E	1 [REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	239.6	101.5	107	73.8	48.8	32.9	165.8	36.51982379		TO Comments:  MISO Comments: Caused By Study Generator, mitigated by reducing AB Brown generation by 112.44 MW
2014SP_1B	1 [REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	238.9	100.6	106.7	73.7	47.7	32.9	165.2	36.3876652		TO Comments:  MISO Comments: Caused By Study Generator, mitigated by reducing AB Brown generation by 113.13 MW
2014SP_1B	1 [REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN	239	239.8	99.1	100.3	72.5	46.9	30.3	167.3	36.85022026		TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBRWN (25355) to 1ABB_R (253621) with a circuit ID of 1  MISO Comments: Caused By Study Generator, mitigated by reducing AB Brown generation by 113.13 MW
2014SP_3B	1 [REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	238	93.7	106.2	73.3	40.6	32.7	164.7	36.27753304		TO Comments:  MISO Comments: Caused By Study Generator, mitigated by reducing AB Brown generation by 107.64 MW
2014SP_3B	1 [REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN	239	241.4	92.6	101	72.1	40	30.2	169.3	37.2907489		TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBRWN (25355) to 1ABB_R (253621) with a circuit ID of 1  MISO Comments: Caused By Study Generator, mitigated by reducing AB Brown generation by 107.64 MW

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments
			** From bus	** * To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)
2014SP_3C	4 [REDACTED]	340566 5MEADE 161 340616 5N.HARD	16 LN	223	363.5	45.6	163	345.9	36.9	155.1	17.6	3.876651982			TO Comments: MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load and generation redispatch, Reduce load at Daviess County Substation 340559 by 48.2 MW Reduce load at Newman Substation 340565 by 38.8 MW Reduce load at Meade County Substation 340566 by 21.59 MW Reduce Generation at Gibson Generator Unit #1 251861 by 230 MW Reduce load at Skillman Substation 340558 by 25 MW
2014SP_3C	4 [REDACTED]	340558 5SKILMAN 161 340566 5MEADE	16 LN	223	308.1	17.4	138.2	291.9	20.4	130.9	16.2	3.568281938			TO Comments: MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load and generation redispatch, Reduce load at Daviess County Substation 340559 by 48.2 MW Reduce load at Newman Substation 340565 by 38.8 MW Reduce load at Meade County Substation 340566 by 21.59 MW Reduce Generation at Gibson Generator Unit #1 251861 by 230 MW Reduce load at Skillman Substation 340558 by 25 MW
2014SP_3C	222 [REDACTED]	248435 07NWTVL1 161 253580 10NTVL16	16 LN	335	420.3	176.7	125.5	381.2	143.5	113.8	39.1	8.612334802			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load, Reduce Century load at Coleman Switchyard 340552 by 69.9 MW
2014SP_3C	222 [REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN	16 LN	335	420.2	176.7	125.4	381.2	143.5	113.8	39	8.59030837			TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load, Reduce Century load at Coleman Switchyard 340552 by 69.9 MW
2014SP_3C	4 [REDACTED]	340551 5REID 161 340559 5DAVIS	16 LN	335	599.5	167.9	179	621.7	216.3	185.6	-22.2	-4.889867841			TO Comments: MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load and generation redispatch, Reduce load at Daviess County Substation 340559 by 48.2 MW Reduce load at Newman Substation 340565 by 38.8 MW Reduce load at Meade County Substation 340566 by 21.59 MW Reduce Generation at Gibson Generator Unit #1 251861 by 230 MW Reduce load at Skillman Substation 340558 by 25 MW

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments
			** From bus	** * To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)
2014SP_3C	4 [REDACTED]	340557 5HANCO 161 340559 5DAVIS	16 LN	265	438.1	59.5	165.3	466.4	107.6	176	-28.3	-6.233480176	TO Comments: MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load and generation redispatch, Reduce load at Daviess County Substation 340559 by 48.2 MW Reduce load at Newman Substation 340565 by 38.8 MW Reduce load at Meade County Substation 340566 by 21.59 MW Reduce Generation at Gibson Generator Unit #1 251861 by 230 MW Reduce load at Skillman Substation 340558 by 25 MW		
2014SP_3B	54 [REDACTED]	248435 07NWTVL1 161 253580 10NTVL16	16 LN	335	418.8	199.7	125	353.5	165.7	105.5	65.3	14.38325991	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load, Reduce Century load at Coleman Switchyard 340552 by 169.41 MW		
2014SP_3B	54 [REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN	16 LN	335	418.8	199.7	125	353.4	165.7	105.5	65.4	14.40528634	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load, Reduce Century load at Coleman Switchyard 340552 by 169.41 MW		
2014SP_3B	222 [REDACTED]	248435 07NWTVL1 161 253580 10NTVL16	16 LN	335	466.3	199.7	139.2	414.2	165.7	123.6	52.1	11.47577093	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load, Reduce Century load at Coleman Switchyard 340552 by 169.51 MW		
2014SP_3B	222 [REDACTED]	248435 07NWTVL1 161 340552 5COLEMAN	16 LN	335	466.2	199.7	139.2	414.2	165.7	123.6	52	11.45374449	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: pre-existing violation; study generation suspension make it worst, mitigated by shed the following load, Reduce Century load at Coleman Switchyard 340552 by 169.51 MW		
2014SP_1B	76 [REDACTED]	253621 10ABB_R 138 340617 4HENDR	12 LN	239	239.7	99.1	100.3	72.4	46.9	30.3	167.3	36.85022026	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus IABBRNN (25355) to IABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed		
2014SP_1B	76 [REDACTED]	340560 5HENDR 161 340617 4HENDR	12 TR	224	238.8	100.6	106.6	73.6	47.7	32.8	165.2	36.3876652	TO Comments: MISO Comments: can be mitigated by load shed		
2014SP_1B	68 [REDACTED]	340560 5HENDR 161 340617 4HENDR	12 TR	224	237.5	100.6	106	129.4	47.7	57.8	108.1	23.81057269	TO Comments: MISO Comments: can be mitigated by load shed		
2014SP_1B	69 [REDACTED]	340560 5HENDR 161 340617 4HENDR	12 TR	224	238.4	100.6	106.4	130.3	47.7	58.2	108.1	23.81057269	TO Comments: MISO Comments: can be mitigated by load shed		
2014SP_1B	87 [REDACTED]	340560 5HENDR 161 340617 4HENDR	12 TR	224	233.5	100.6	104.3	126.9	47.7	56.7	106.6	23.48017621	TO Comments: MISO Comments: can be mitigated by load shed		

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments		
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)	
2014SP_1B	71 [REDACTED]	253621 10ABB_R	138	340617	4HENDR	13 LN	239	248.8	99.1	104.1	142.7	46.9	59.7	106.1		23.37004405	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_1B	70 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	232.3	100.6	103.7	128.1	47.7	57.2	104.2		22.95154185	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	1 [REDACTED]	253621 10ABB_R	138	340617	4HENDR	13 LN	239	250.6	99.1	104.8	147.4	46.9	61.7	103.2		22.73127753	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_1B	95 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	225.7	100.6	100.8	122.6	47.7	54.7	103.1		22.7092511	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	96 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	225.7	100.6	100.8	122.6	47.7	54.7	103.1		22.7092511	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	1 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	251.8	100.6	112.4	149.4	47.7	66.7	102.4		22.55506608	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	71 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	246.7	100.6	110.2	144.6	47.7	64.6	102.1		22.48898678	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	100 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.1	100.6	100.1	129.9	47.7	58	94.2		20.74889868	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	92 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.7	100.6	100.3	130.6	47.7	58.3	94.1		20.72687225	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	93 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.7	100.6	100.3	130.6	47.7	58.3	94.1		20.72687225	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	86 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	225	100.6	100.5	131.2	47.7	58.6	93.8		20.66079295	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	66 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.3	100.6	100.1	130.6	47.7	58.3	93.7		20.63876652	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	67 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.4	100.6	100.2	130.7	47.7	58.3	93.7		20.63876652	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	78 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.9	100.6	100.4	131.2	47.7	58.6	93.7		20.63876652	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	83 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	225.1	100.6	100.5	131.4	47.7	58.7	93.7		20.63876652	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	84 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	226.5	100.6	101.1	132.8	47.7	59.3	93.7		20.63876652	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	85 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	223.9	100.6	100	130.4	47.7	58.2	93.5		20.59471366	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	88 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	225.4	100.6	100.6	131.9	47.7	58.9	93.5		20.59471366	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	79 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.8	100.6	100.4	131.4	47.7	58.6	93.4		20.57268722	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	80 [REDACTED]	340560 5HENDR	161	340617	4HENDR	13 TR	224	224.5	100.6	100.2	131.1	47.7	58.5	93.4		20.57268722	TO Comments: MISO Comments: can be mitigated by load shed

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Model	Contingency		Limiting Element					BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
	Neon	Contingency Description	** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)	
2014SP_1B	89	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.5	100.6	100.2	131.1	47.7	58.5	93.4		20.57268722	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	101	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.5	100.6	100.7	133	47.7	59.4	92.5		20.37444934	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	280	[REDACTED]	326563 5MTNZ	161 326564 5MTNZ	13 TR		230	245.4	65.3	106.7	269.5	71	117.2	-24.1		-5.308370044	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1B	281	[REDACTED]	326563 5MTNZ	161 326564 5MTNZ	13 TR		230	245.4	65.3	106.7	269.5	71	117.2	-24.1		-5.308370044	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1C	280	[REDACTED]	326563 5MTNZ	161 326564 5MTNZ	13 TR		230	271.2	71.1	117.9	295.2	76.7	128.3	-24		-5.286343612	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_1C	281	[REDACTED]	326563 5MTNZ	161 326564 5MTNZ	13 TR		230	271.2	71.1	117.9	295.2	76.7	128.3	-24		-5.286343612	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	1	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	260.8	83	109.1	156.2	30.9	65.3	104.6		23.03964758	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1  MISO Comments: can be mitigated by load shed
2014SP_2B	53	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	252	83	105.4	127.7	30.9	53.4	124.3		27.37885463	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1  MISO Comments: can be mitigated by load shed
2014SP_2B	53	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	244.3	83.8	109.1	129.3	31.4	57.7	115		25.33039648	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	54	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.5	83.8	100.2	132.1	31.4	59	92.4		20.35242293	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	66	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.4	83.8	100.2	132.5	31.4	59.1	91.9		20.24229075	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	67	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.6	83.8	100.3	132.6	31.4	59.2	92		20.26431718	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	68	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	248.1	83	103.8	137.7	30.9	57.6	110.4		24.31718062	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1  MISO Comments: can be mitigated by load shed
2014SP_2B	68	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	245.3	83.8	109.5	139.4	31.4	62.2	105.9		23.32599119	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	69	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	249	83	104.2	138.6	30.9	58	110.4		24.31718062	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1  MISO Comments: can be mitigated by load shed
2014SP_2B	69	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	246.3	83.8	109.9	140.3	31.4	62.6	106		23.34801762	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	70	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	234.2	83.8	104.5	131.7	31.4	58.8	102.5		22.57709253	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	71	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	256.6	83	107.4	146.7	30.9	61.4	109.9		24.20704846	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1  MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments		
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)	
2014SP_2B	73	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	248.8	83.8	111.1	148.4	31.4	66.3	100.4		22.11453744	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	78	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.2	83.8	100.6	133.2	31.4	59.5	92		20.26431718	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	79	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.9	83.8	100.4	133.1	31.4	59.4	91.8		20.22026432	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	80	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.6	83.8	100.2	132.8	31.4	59.3	91.8		20.22026432	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	83	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.6	83.8	100.7	133.7	31.4	59.7	91.9		20.24229075	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	84	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	226.7	83.8	101.2	134.8	31.4	60.2	91.9		20.24229075	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	85	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.1	83.8	100	132.2	31.4	59	91.9		20.24229075	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	86	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.4	83.8	100.6	133.3	31.4	59.5	92.1		20.28634361	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	87	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	242.8	83	101.6	134.3	30.9	56.2	108.5		23.89867841	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBRWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_2B	87	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	240.5	83.8	107.4	136	31.4	60.7	104.5		23.01762115	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	88	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.4	83.8	100.6	133.7	31.4	59.7	91.7		20.19823789	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	89	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.6	83.8	100.2	132.8	31.4	59.3	91.8		20.22026432	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	100	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.6	83.8	100.3	132	31.4	58.9	92.6		20.39647577	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	101	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.6	83.8	100.7	134.8	31.4	60.2	90.8		20	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	629	[REDACTED]	340551 5REID	161 340622 5REIDEHV	16 LN		335	336.5	106.2	100.4	69.1	51	20.6	267.4		58.89867841	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	665	[REDACTED]	340551 5REID	161 340622 5REIDEHV	16 LN		335	337.5	136.1	100.7	69.4	65.3	20.7	268.1		59.05286344	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_2B	1	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	258.3	83.8	115.3	157.6	31.3	70.3	100.7		22.18061674	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	1	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	268.2	92.6	112.2	164.4	40	68.8	103.8		22.86343612	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBRWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_3B	68	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	242.9	92.6	101.6	133.6	40	55.9	109.3		24.07488987	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBRWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	
2014SP_3B	68	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	242.8	93.7	108.4	135.3	40.6	60.4	107.5		23.6784141
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	69	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	243.8	92.6	102	134.4	40	56.3	109.4		24.0969163
																TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_3B	69	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	243.8	93.7	108.8	136.2	40.6	60.8	107.6		23.70044053
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	70	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	227.5	93.7	101.6	123.5	40.6	55.1	104		22.90748899
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	71	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	245.2	92.6	102.6	138.5	40	57.9	106.7		23.50220264
																TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_3B	71	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	242.1	93.7	108.1	140.2	40.6	62.6	101.9		22.44493392
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	73	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.1	93.7	100.1	130.8	40.6	58.4	93.3		20.550660793
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	76	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN		239	241.4	92.6	101	72	40	30.1	169.4		37.31277533
																TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_3B	76	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	237.8	93.7	106.2	73.1	40.6	32.6	164.7		36.27753304
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	78	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.6	93.7	100.7	132.5	40.6	59.1	93.1		20.50660793
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	79	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.8	93.7	100.4	131.9	40.6	58.9	92.9		20.46255507
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	80	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.6	93.7	100.2	131.6	40.6	58.8	93		20.4845815
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	83	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.6	93.7	100.7	132.5	40.6	59.1	93.1		20.50660793
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	84	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	226.6	93.7	101.2	133.5	40.6	59.6	93.1		20.50660793
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	85	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.1	93.7	100	131	40.6	58.5	93.1		20.50660793
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	86	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.3	93.7	100.6	131.9	40.6	58.9	93.4		20.57268722
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	87	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	238.2	93.7	106.3	132.1	40.6	59	106.1		23.37004405
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	88	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.5	93.7	100.7	132.5	40.6	59.1	93		20.4845815
																TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	89	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.6	93.7	100.2	131.6	40.6	58.8	93		20.4845815
																TO Comments: MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments		
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)	
2014SP_3B	92	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.9	93.7	100.4	131.5	40.6	58.7	93.4		20.57268722	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	93	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.9	93.7	100.4	131.5	40.6	58.7	93.4		20.57268722	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	95	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.6	93.7	100.7	122.9	40.6	54.9	102.7		22.62114537	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	96	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.6	93.7	100.7	122.9	40.6	54.9	102.7		22.62114537	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	100	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	224.4	93.7	100.2	130.6	40.6	58.3	93.8		20.66079295	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	101	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR		224	225.6	93.7	100.7	133.6	40.6	59.6	92		20.26431718	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3B	217	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	409.9	199.7	122.4	360.3	165.7	107.6	49.6		10.92511013	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	217	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	409.8	199.7	122.3	360.3	165.7	107.6	49.5		10.9030837	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	216	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	390.1	199.7	116.4	340.8	165.7	101.7	49.3		10.85903084	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	216	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	390.1	199.7	116.4	340.8	165.7	101.7	49.3		10.85903084	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	243	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	380.7	199.7	113.7	337.2	165.7	100.7	43.5		9.581497797	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	243	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	380.7	199.7	113.6	337.2	165.7	100.6	43.5		9.581497797	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	221	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	385.4	199.7	115.1	336.3	165.7	100.4	49.1		10.81497797	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	221	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	385.4	199.7	115.1	336.3	165.7	100.4	49.1		10.81497797	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	227	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	374.8	199.7	111.9	329.3	165.7	98.3	45.5		10.02202643	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	
2014SP_3B	227 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	374.8	199.7	111.9	329.2	165.7	98.3	45.6		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	103 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	371.3	199.7	110.8	318.6	165.7	95.1	52.7		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	103 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	371.2	199.7	110.8	318.6	165.7	95.1	52.6		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	238 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	371.2	199.7	110.8	318.6	165.7	95.1	52.6		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	238 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	371.2	199.7	110.8	318.6	165.7	95.1	52.6		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	200 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	360.8	199.7	107.7	318.2	165.7	95	42.6		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	200 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	360.8	199.7	107.7	318.1	165.7	95	42.7		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	201 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	360.9	199.7	107.7	318.2	165.7	95	42.7		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	201 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	360.9	199.7	107.7	318.2	165.7	95	42.7		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	239 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	372	199.7	111.1	316.2	165.7	94.4	55.8		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	239 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	372	199.7	111	316.1	165.7	94.4	55.9		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	240 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	372	199.7	111.1	316.2	165.7	94.4	55.8		TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	
2014SP_3B	240	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN	335	372	199.7	111	316.1	165.7	94.4	55.9		12.31277533	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	211	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN	335	357.8	199.7	106.8	315.8	165.7	94.3	42		9.251101322	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	228	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN	335	358.8	199.7	107.1	315.8	165.7	94.3	43		9.471365639	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	210	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN	335	357.8	199.7	106.8	315.6	165.7	94.2	42.2		9.295154185	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	210	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN	335	357.8	199.7	106.8	315.6	165.7	94.2	42.2		9.295154185	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	211	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN	335	357.8	199.7	106.8	315.7	165.7	94.2	42.1		9.273127753	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	228	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN	335	358.8	199.7	107.1	315.7	165.7	94.2	43.1		9.49339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	232	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN	335	358.4	199.7	107	315.4	165.7	94.2	43		9.471365639	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	245	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN	335	358.6	199.7	107	315.5	165.7	94.2	43.1		9.49339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	245	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN	335	358.6	199.7	107	315.5	165.7	94.2	43.1		9.49339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	223	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN	335	358.2	199.7	106.9	315.2	165.7	94.1	43		9.471365639	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	223	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN	335	358.2	199.7	106.9	315.2	165.7	94.1	43		9.471365639	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments		
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)	
2014SP_3B	224	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	358.1	199.7	106.9	315.1	165.7	94.1	43		9.471365639	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	225	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	358.5	199.7	107	315.2	165.7	94.1	43.3		9.537444934	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	225	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358.5	199.7	107	315.1	165.7	94.1	43.4		9.559471366	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	230	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	358.3	199.7	106.9	315.2	165.7	94.1	43.1		9.49339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	230	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358.3	199.7	106.9	315.1	165.7	94.1	43.2		9.515418502	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	232	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358.4	199.7	107	315.4	165.7	94.1	43		9.471365639	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	233	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	358.1	199.7	106.9	315.1	165.7	94.1	43		9.471365639	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	30	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.4	199.7	106.7	314.8	165.7	94	42.6		9.383259912	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	30	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.4	199.7	106.7	314.8	165.7	94	42.6		9.383259912	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	202	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.9	199.7	106.8	314.8	165.7	94	43.1		9.49339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	204	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.7	199.7	106.8	314.8	165.7	94	42.9		9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	204	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.7	199.7	106.8	314.8	165.7	94	42.9		9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	
2014SP_3B	208	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	358.3	199.7	107	314.8	165.7	94	43.5		9.581497797 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	209	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	358.1	199.7	106.9	314.8	165.7	94	43.3		9.537444934 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	209	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358.1	199.7	106.9	314.7	165.7	94	43.4		9.559471366 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	224	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358	199.7	106.9	315.1	165.7	94	42.9		9.449339207 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	229	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.6	199.7	106.7	314.9	165.7	94	42.7		9.405286344 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	229	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.5	199.7	106.7	314.8	165.7	94	42.7		9.405286344 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	233	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358	199.7	106.9	315.1	165.7	94	42.9		9.449339207 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	234	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.6	199.7	106.8	314.7	165.7	94	42.9		9.449339207 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	235	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.6	199.7	106.8	314.7	165.7	94	42.9		9.449339207 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	236	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.9	199.7	106.8	314.8	165.7	94	43.1		9.49339207 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	236	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.9	199.7	106.8	314.7	165.7	94	43.2		9.515418502 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	237	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.9	199.7	106.8	314.8	165.7	94	43.1		9.49339207 TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments		
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)	
2014SP_3B	237	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.9	199.7	106.8	314.7	165.7	94	43.2		9.515418502	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	241	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.7	199.7	106.8	314.8	165.7	94	42.9		9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	241	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.7	199.7	106.8	314.8	165.7	94	42.9		9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	242	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.7	199.7	106.8	314.8	165.7	94	42.9		9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	242	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.7	199.7	106.8	314.8	165.7	94	42.9		9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	1318	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.4	199.7	106.7	314.8	165.7	94	42.6		9.383259912	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	1318	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.4	199.7	106.7	314.8	165.7	94	42.6		9.383259912	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	202	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.9	199.7	106.8	314.7	165.7	93.9	43.2		9.515418502	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	208	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358.3	199.7	106.9	314.7	165.7	93.9	43.6		9.603524229	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	213	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	363.9	199.7	108.6	314.5	165.7	93.9	49.4		10.88105727	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	213	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	363.9	199.7	108.6	314.5	165.7	93.9	49.4		10.88105727	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	234	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.6	199.7	106.8	314.7	165.7	93.9	42.9		9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	
2014SP_3B	235	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.6	199.7	106.8	314.7	165.7	93.9	42.9	9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	244	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	356.3	199.7	106.4	314.7	165.7	93.9	41.6	9.162995595	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	244	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	356.3	199.7	106.3	314.6	165.7	93.9	41.7	9.185022026	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	203	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357.1	199.7	106.6	314.3	165.7	93.8	42.8	9.427312775	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	203	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357.1	199.7	106.6	314.2	165.7	93.8	42.9	9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	212	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	363.6	199.7	108.5	314.2	165.7	93.8	49.4	10.88105727	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	212	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	363.6	199.7	108.5	314.1	165.7	93.8	49.5	10.9030837	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	226	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	357	199.7	106.6	314.1	165.7	93.8	42.9	9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	226	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	357	199.7	106.6	314.1	165.7	93.8	42.9	9.449339207	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	199	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	355.8	199.7	106.2	313.2	165.7	93.5	42.6	9.383259912	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	199	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	355.8	199.7	106.2	313.1	165.7	93.5	42.7	9.405286344	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	206	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	356.9	199.7	106.5	313.3	165.7	93.5	43.6	9.603524229	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	
2014SP_3B	206	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	356.9	199.7	106.5	313.2	165.7	93.5	43.7		9.625550661
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	231	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	361.7	199.7	108	313.4	165.7	93.5	48.3		10.63876652
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	231	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	361.6	199.7	107.9	313.3	165.7	93.5	48.3		10.63876652
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	219	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	358.4	199.7	107	311.8	165.7	93.1	46.6		10.26431718
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	219	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	358.4	199.7	107	311.7	165.7	93	46.7		10.28634361
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	151	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	350.3	199.7	104.6	305.9	165.7	91.3	44.4		9.779735683
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	151	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	350.3	199.7	104.6	305.8	165.7	91.3	44.5		9.801762115
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	220	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	352.1	199.7	105.1	302.1	165.7	90.2	50		11.01321586
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	220	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	352.1	199.7	105.1	302.1	165.7	90.2	50		11.01321586
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	218	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	337.8	199.7	100.8	298.4	165.7	89.1	39.4		8.678414097
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	218	[REDACTED]	248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	337.8	199.7	100.8	298.3	165.7	89	39.5		8.700440529
																TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3B	52	[REDACTED]	248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	366.7	199.7	109.5	274.1	165.7	81.8	92.6		20.39647577
																TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments		
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)	
2014SP_3B	52 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	366.7	199.7	109.5	274.1	165.7	81.8	92.6		20.39647577	TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed
2014SP_3B	94 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	366.7	199.7	109.5	274.1	165.7	81.8	92.6		20.39647577	TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed
2014SP_3B	94 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	366.7	199.7	109.5	274.1	165.7	81.8	92.6		20.39647577	TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed
2014SP_3B	75 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	347.4	199.7	103.7	255.2	165.7	76.2	92.2		20.30837004	TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed
2014SP_3B	75 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	347.4	199.7	103.7	255.2	165.7	76.2	92.2		20.30837004	TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed
2014SP_3B	1 [REDACTED]		340560 5HENDR	161 340617 4HENDR	12 TR		224	267.4	93.7	119.4	165.9	40.6	74.1	101.5		22.35682819	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3C	4 [REDACTED]		340557 5HANCO	161 340621 5COLEEHV	16 LN		265	301.7	37.9	113.9	327.5	50	123.6	-25.8		-5.682819383	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3C	280 [REDACTED]		326563 5MTNZ	161 326564 5MTNZ	12 TR		230	259.5	68.6	112.8	283.6	74.3	123.3	-24.1		-5.308370044	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3C	281 [REDACTED]		326563 5MTNZ	161 326564 5MTNZ	12 TR		230	259.5	68.6	112.8	283.6	74.3	123.3	-24.1		-5.308370044	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3C	520 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	355	176.7	106	374	143.5	111.6	-19		-4.185022026	TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed
2014SP_3C	520 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	355	176.7	106	374	143.5	111.6	-19		-4.185022026	TO Comments: This mitigation is the same as for the Op Guide mentioned above, open the overloaded line. This contingency would need to be added to the Op Guide. MISO Comments: can be mitigated by load shed
2014SP_3C	4 [REDACTED]		340558 5SKILMAN	161 340564 5NATAL	16 LN		265	274.3	38.4	103.5	260	46.8	98.1	14.3		3.149779736	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3C	217 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	366.7	176.7	109.5	326	143.5	97.3	40.7		8.964757709	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	217 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	366.7	176.7	109.5	326	143.5	97.3	40.7		8.964757709	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	4 [REDACTED]		340564 5NATAL	161 340621 5COLEEHV	16 LN		265	266.5	41.7	100.6	252.1	50.2	95.1	14.4		3.171806167	TO Comments: MISO Comments: can be mitigated by load shed

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Model	Neon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments		
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)		
2014SP_3C	243 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	348.3	176.7	104	316.3	143.5	94.4		32	7.04845815	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	243 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	348.3	176.7	104	316.3	143.5	94.4		32	7.04845815	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	54 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	369.1	176.7	110.2	314.3	143.5	93.8		54.8	12.07048458	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	54 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	369.1	176.7	110.2	314.2	143.5	93.8		54.9	12.09251101	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	216 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	347.1	176.7	103.6	307.2	143.5	91.7		39.9	8.788546256	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	216 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	347.1	176.7	103.6	307.2	143.5	91.7		39.9	8.788546256	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	221 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	342.5	176.7	102.3	302.5	143.5	90.3		40	8.810572687	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	221 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	342.6	176.7	102.3	302.6	143.5	90.3		40	8.810572687	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	227 [REDACTED]		248435 07NWTVL1	161 253580 10NTVL16	16 LN		335	338.2	176.7	100.9	302.3	143.5	90.2		35.9	7.907488987	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3C	227 [REDACTED]		248435 07NWTVL1	161 340552 5COLEMAN	16 LN		335	338.2	176.7	100.9	302.2	143.5	90.2		36	7.929515419	TO Comments: There is a standing Op Guide on file with MISO named [REDACTED] that covers this contingent overload. MISO Comments: can be mitigated by load shed
2014SP_3E	1 [REDACTED]		253621 10ABB_R	138 340617 4HENDR	13 LN		239	248.5	100	104	145.8	48	61		102.7	22.62114537	TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus 1ABBWN (25355) to 1ABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_3E	1 [REDACTED]		340560 SHENDR	161 340617 4HENDR	13 TR		224	250.5	101.5	111.8	147.8	48.8	66		102.7	22.62114537	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	68 [REDACTED]		340560 SHENDR	161 340617 4HENDR	13 TR		224	236.2	101.5	105.5	128.7	48.8	57.4		107.5	23.6784141	TO Comments: MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Branch Results

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Model	Contingency		Limiting Element					BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
	Neon	Contingency Description	** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF <th data-kind="ghost"></th>	
2014SP_3E	69	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	237.1	101.5	105.9	129.5	48.8	57.8	107.6		23.70044053		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	70	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	233.8	101.5	104.4	129.3	48.8	57.7	104.5		23.01762115		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	71	[REDACTED]	253621 10ABB_R	138 340617 4HENDR	13 LN	239	248.7	100	104.1	143.8	48	60.2	104.9		23.10572687		TO Comments: There is a 4.5% reactor on this line that can be put in service. It is from Bus IABBRWN (2535) to IABB_R (253621) with a circuit ID of 1 MISO Comments: can be mitigated by load shed
2014SP_3E	71	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	248.2	101.5	110.8	145.8	48.8	65.1	102.4		22.55506608		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	76	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	239.5	101.5	106.9	73.6	48.8	32.9	165.9		36.54185022		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	78	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	224.1	101.5	100	131	48.8	58.5	93.1		20.50660793		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	79	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	224.2	101.5	100.1	131.3	48.8	58.6	92.9		20.46255507		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	80	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	223.9	101.5	100	131	48.8	58.5	92.9		20.46255507		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	83	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	224.6	101.5	100.3	131.3	48.8	58.6	93.3		20.55066079		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	84	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	225.9	101.5	100.8	132.7	48.8	59.3	93.2		20.52863436		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	86	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	224.4	101.5	100.2	131.1	48.8	58.5	93.3		20.55066079		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	87	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	232.2	101.5	103.6	126.3	48.8	56.4	105.9		23.32599119		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	88	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	224.7	101.5	100.3	131.9	48.8	58.9	92.8		20.44052863		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	89	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	223.9	101.5	100	131	48.8	58.5	92.9		20.46255507		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	92	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	224	101.5	100	130.6	48.8	58.3	93.4		20.57268722		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	93	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	224	101.5	100	130.6	48.8	58.3	93.4		20.57268722		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	95	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	225.3	101.5	100.6	122.5	48.8	54.7	102.8		22.64317181		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	96	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	225.3	101.5	100.6	122.5	48.8	54.7	102.8		22.64317181		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	101	[REDACTED]	340560 5HENDR	161 340617 4HENDR	13 TR	224	225	101.5	100.5	133	48.8	59.4	92		20.26431718		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	280	[REDACTED]	326563 5MTNZ	161 326564 5MTNZ	13 TR	230	247.5	65.8	107.6	271.1	71.3	117.9	-23.6		-5.198237885		TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3E	281	[REDACTED]	326563 5MTNZ	161 326564 5MTNZ	13 TR	230	247.5	65.8	107.6	271.1	71.3	117.9	-23.6		-5.198237885		TO Comments: MISO Comments: can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element				BREC Green Station OFF			BREC Green Station On			Unit Impact		Comments	
			** From bus	** To bus	** CKT	Type	Rating	ContMW	BaseFlow	Loading%	ContMW	BaseFlow	Loading%	MWoff-MWon	PTDF (> 5%)	OTDF (> 3%)
2014SP_3F	280	[REDACTED]	326563 5MTNZ	161	326564 5MTNZ	13 TR	230	271.7	71.2	118.1	295.2	76.7	128.4	-23.5	-5.176211454	TO Comments: MISO Comments: can be mitigated by load shed
2014SP_3F	281	[REDACTED]	326563 5MTNZ	161	326564 5MTNZ	13 TR	230	271.7	71.2	118.1	295.2	76.7	128.4	-23.5	-5.176211454	TO Comments: MISO Comments: can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	12	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0389	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID
2014SP_3F	2	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID
2014SP_3F	2	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0426	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID
2014SP_3F	3	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID
2014SP_3F	3	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0426	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID
2014SP_3F	27	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	21	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0387	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID
2014SP_3F	21	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0387	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator; mitigated by switching off fix shunt at REID
2014SP_3F	14	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.039	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.006, 340553)
2014SP_3F	18	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.007, 340553)
2014SP_3F	4	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.007, 340553)
2014SP_3F	13	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.007, 340553)

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	14	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.007, 340553)
2014SP_3F	19	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.008, 340553)
2014SP_3F	19	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.008, 340553)
2014SP_3F	442	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.008, 340553)
2014SP_3F	7	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.008, 340553)
2014SP_3F	7	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.008, 340553)

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_3F	6	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.008, 340553)	
2014SP_3F	30	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	36	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	37	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	8	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	8	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0396	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_3F	8	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0396	1.028	H X	0.014	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	4	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	4	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	5	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	5	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	
2014SP_3F	1	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	8	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0396	1.028	H X	0.014	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)
2014SP_3F	2	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.009, 340553)
2014SP_3F	15	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.01, 340553)
2014SP_3F	16	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.01, 340553)
2014SP_3F	9	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0397	1.028	H X	0.014	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.01, 340553)
2014SP_3F	355	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0422	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.015, 340553)

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_3F	2	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0422	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.015, 340553)	
2014SP_3F	51	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0408	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.015, 340553)	
2014SP_3F	21	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0412	1.028	H X	0.012	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.016, 340553)	
2014SP_3F	11	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0406	1.028	H X	0.015	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.017, 340553)	
2014SP_3F	11	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0406	1.028	H X	0.015	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.017, 340553)	
2014SP_3F	12	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0406	1.028	H X	0.015	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.017, 340553)	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_3F	12	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0406	1.028	H X	0.015	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.017, 340553)	
2014SP_3F	13	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0407	1.028	H X	0.015	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.017, 340553)	
2014SP_3F	13	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0407	1.028	H X	0.015	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.017, 340553)	
2014SP_3F	10	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0425	1.028	H X	0.014	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.018, 340553)	
2014SP_3F	10	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.056	1.048	H	1.0468	1.0376	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.018, 340553)	
2014SP_3F	10	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0463	1.0372	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.018, 340553)	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	306	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0414	1.028	H X	0.011	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340553)
2014SP_3F	307	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0414	1.028	H X	0.011	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340553)
2014SP_3F	308	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0414	1.028	H X	0.011	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340553)
2014SP_3F	309	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0414	1.028	H X	0.011	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340553)
2014SP_3F	310	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0414	1.028	H X	0.011	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340553)
2014SP_3F	1	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.064	1.048	H	1.0435	1.0376	H X	0.020	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_3F	1	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.064	1.048	H	1.0433	1.0372	H X	0.020	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)	
2014SP_3F	1	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.025	1.028	H X	0.033	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)	
2014SP_3F	1	[REDACTED]	340619	5SHOPCO	161	314	1314	0.92	1.05	1.052	1.043	H	1.0297	1.0329	H X	0.023	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)	
2014SP_3F	1	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.052	1.038	H	1.0328	1.0281	H X	0.019	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)	
2014SP_3F	1	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.051	1.038	H	1.0318	1.0277	H X	0.019	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)	
2014SP_3F	15	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0408	1.028	H X	0.013	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.024, 340553)	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_3F	15	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0408	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.024, 340553)	
2014SP_3F	45	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.025, 340553)	
2014SP_3F	46	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.025, 340553)	
2014SP_3F	15	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0458	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.028, 340553)	
2014SP_3F	23	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.032, 340553)	
2014SP_3F	20	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.068, 340553)	

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_3F	23	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)	
2014SP_3F	23	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)	
2014SP_3F	5	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)	
2014SP_3F	5	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)	
2014SP_3F	6	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)	
2014SP_3F	6	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	7	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)
2014SP_3F	7	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments:  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.108, 340553)
2014SP_3F	10	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H	0.012	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.018, 340553)
2014SP_3F	10	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H	0.011	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.018, 340553)
2014SP_3F	10	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0668	1.0464	H	0.011	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.018, 340553)
2014SP_3F	10	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H	0.011	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.018, 340553)

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.081	1.083	H	1.0709	1.0796	H	0.010	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.021, 340574)
2014SP_3F	1	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.075	1.077	H	1.0647	1.0736	H	0.011	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.021, 340574)
2014SP_3F	1	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.075	1.076	H	1.0643	1.0729	H	0.010	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.021, 340574)
2014SP_3F	1	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.072	1.073	H	1.0594	1.0693	H	0.013	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator Mitigation:IncVsCh (-0.021, 340574)
2014SP_2B	439	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7179	1.048	L	-0.017	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator
2014SP_2B	439	[REDACTED]	360430	5HARRIMAN	161	347	1368	0.9	1.1	0.701	1.043	L	0.7177	1.0431	L	-0.017	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	Comments
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)		
2014SP_2B	439	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7176	1.0478	L	-0.017	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator	
2014SP_2B	439	[REDACTED]	361383	5W OAK RIDG	161	347	1368	0.9	1.1	0.701	1.048	L	0.718	1.0483	L	-0.017	BREC Comments:  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator	
2014SP_1C	1	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.05	1.039	H	1.0311	1.0338	H X	0.019	BREC Comments: can be mitigated through capacitor switching or generator adjustments  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)	
2014SP_1C	1	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.05	1.039	H	1.031	1.0335	H X	0.019	BREC Comments: can be mitigated through capacitor switching or generator adjustments  SIGE Comments:  MISO Comments: Caused by Study generator Mitigation:IncVsCh (-0.021, 340574)	
2014SP_1C	439	[REDACTED]	360430	5HARRIMAN	161	347	1368	0.9	1.1	0.703	1.043	L	0.7181	1.0432	L	-0.015	BREC Comments: can be mitigated through capacitor switching or generator adjustments  SIGE Comments:  MISO Comments: pre-existing violation, aggravated by study generator	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_1C	439	[REDACTED]	361383	5W OAK RIDGE	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0483	L	-0.015	BREC Comments: can be mitigated through capacitor switching or generator adjustments SIGE Comments: MISO Comments: pre-existing violation, aggravated by study generator
2014SP_1C	439	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0481	L	-0.015	BREC Comments: can be mitigated through capacitor switching or generator adjustments SIGE Comments: MISO Comments: pre-existing violation, aggravated by study generator
2014SP_1C	439	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.718	1.0478	L	-0.015	BREC Comments: can be mitigated through capacitor switching or generator adjustments SIGE Comments: MISO Comments: pre-existing violation, aggravated by study generator
2014SP_3F	4	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	4	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	8	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0356	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	9	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0356	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	10	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0356	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	15	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0419	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	18	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.042	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	20	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	20	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	20	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	21	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	21	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	21	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	23	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0394	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	23	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0347	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	23	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0391	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	25	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0469	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0723	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0425	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0668	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0461	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	7	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.04	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	8	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0401	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	11	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.066	1.051	H	1.031	1.028	H X	0.035	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	11	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.055	1.041	H	1.0204	1.0174	H X	0.035	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	13	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	14	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	16	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0435	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	17	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	17	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	18	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	18	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.058	1.048	H	1.0481	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0726	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0433	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	24	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0455	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0439	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0675	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0477	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.067	1.048	H	1.0473	1.0376	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340556	5CALDWL	161	314	1314	0.92	1.05	1.051	1.043	H	1.0335	1.0356	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	27	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.063	1.051	H	1.0333	1.028	H X	0.030	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.053	1.041	H	1.0228	1.0174	H X	0.030	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.053	1.038	H	1.0339	1.0277	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.055	1.038	H	1.0353	1.0281	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.054	1.043	H	1.033	1.0329	H X	0.021	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.067	1.048	H	1.0471	1.0372	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	28	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	28	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0426	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	29	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	29	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0426	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	30	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0443	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	30	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0439	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	32	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0437	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	34	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0468	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	34	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	34	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	34	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0425	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	34	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0668	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	34	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	34	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0463	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	35	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0471	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	35	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	35	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	35	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0427	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	35	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	35	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.057	1.038	H	1.0473	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	35	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	35	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0466	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	36	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	36	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	36	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	36	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0426	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	36	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	36	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	36	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0465	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	37	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0398	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	38	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0409	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	40	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	42	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0356	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	45	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.042	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	46	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.042	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	49	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0419	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	50	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0419	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	57	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	57	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	57	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	58	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	58	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	58	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	61	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	61	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	61	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	62	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	62	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	62	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	65	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	65	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0385	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	65	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	66	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0394	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	66	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0347	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	66	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0391	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	67	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	67	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0385	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	67	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	68	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0394	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	68	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0347	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	68	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0391	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	70	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	71	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	2	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0458	1.028	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	3	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0396	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	18	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0437	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	19	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.044	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.052	1.041	H	1.0411	1.0174	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	37	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0448	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	44	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0458	1.028	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	45	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0467	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	46	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0467	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	52	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0426	1.0376	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	52	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0423	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	52	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0423	1.0372	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	55	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0423	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	56	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	57	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	58	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0421	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	59	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	60	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	62	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0433	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	64	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0419	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	65	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	66	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0411	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	66	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.076	1.077	H	1.0662	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	67	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.072	1.073	H	1.0621	1.0429	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	67	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.041	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	67	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.076	1.077	H	1.0659	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	68	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.0392	1.0376	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	68	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0382	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	68	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.05	1.048	H	1.0388	1.0372	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	69	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.0396	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	69	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0386	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	69	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0392	1.0372	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	72	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0421	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	75	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.055	1.041	H	1.0392	1.0174	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	75	[REDACTED]	340619	5SHOPCO	161	314	1314	0.92	1.05	1.055	1.043	H	1.0444	1.0329	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.064	1.048	H	1.0431	1.0376	H X	0.021	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	76	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0248	1.028	H X	0.033	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340562	7REID	345	314	1314	0.92	1.05	1.063	1.04	H	1.0429	1.0347	H X	0.021	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.05	1.038	H	1.0313	1.0277	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.052	1.038	H	1.0323	1.0281	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.052	1.043	H	1.0295	1.0329	H X	0.023	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.063	1.048	H	1.0429	1.0372	H X	0.021	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	77	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0423	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	78	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0442	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	79	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	80	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	81	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	82	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	83	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.081	1.083	H	1.0711	1.0492	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	83	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0409	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	83	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.075	1.076	H	1.0653	1.0464	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	83	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.076	1.077	H	1.0661	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	84	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0419	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	85	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	86	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0419	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	87	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.041	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	87	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0394	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	87	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0406	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	88	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0421	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	89	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	90	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	91	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	92	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0446	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	93	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0446	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	94	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0426	1.0376	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	94	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0423	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	94	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0423	1.0372	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	95	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	95	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0398	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	95	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	96	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	96	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0398	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	96	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	99	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0425	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	100	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0432	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	101	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.042	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	103	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0416	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	103	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0412	1.0372	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	118	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0334	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	122	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0415	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	124	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.058	1.048	H	1.0481	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	124	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0726	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	124	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0433	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	124	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	124	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0455	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	124	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0438	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	124	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0675	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	124	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0477	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	127	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0398	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	131	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0369	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	141	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0722	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	141	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.063	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	141	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0656	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	141	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.039	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	141	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0667	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	141	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0671	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	142	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0722	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	142	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.063	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	142	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0656	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	142	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.039	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	142	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0667	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	142	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0671	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	144	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0384	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	144	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0358	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	144	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0381	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	145	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0384	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	145	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0358	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	145	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0381	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	146	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0411	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	147	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0411	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	155	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0641	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	169	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0636	1.0464	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	170	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0363	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	171	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0711	1.0492	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	171	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0619	1.0429	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	171	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0649	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	171	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0427	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	171	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.079	1.076	H	1.0657	1.0464	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	171	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0661	1.0463	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	172	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.056	1.048	H	1.0464	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	172	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0637	1.0475	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	172	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0347	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	172	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.054	1.038	H	1.0438	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	172	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.052	1.038	H	1.0421	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	172	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.046	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	174	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0641	1.0463	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	192	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0416	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	193	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0416	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	194	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0354	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	195	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0354	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	196	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0702	1.0492	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	196	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0653	1.0464	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	196	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0652	1.0463	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	199	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0446	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	199	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.0442	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	200	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	200	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	201	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	201	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	202	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0441	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	202	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0437	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	203	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0441	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	203	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0437	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	204	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	204	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	206	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0445	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	208	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0442	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	208	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0433	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	209	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0442	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	209	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0434	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	210	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0437	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	210	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0433	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	211	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0437	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	211	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0433	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	212	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0408	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	212	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0404	1.0372	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	213	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0412	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	213	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0407	1.0372	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	216	[REDACTED]	248431	07BRISTW	161	207	1207	0.9	1.1	1.101	1.063	H	1.0735	1.0466	H X	0.028	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	219	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.052	1.043	H	1.0404	1.0329	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	220	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.051	1.038	H	1.0393	1.0281	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	221	[REDACTED]	248431	07BRISTW	161	207	1207	0.9	1.1	1.101	1.063	H	1.0738	1.0466	H X	0.028	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	223	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	223	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	224	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0439	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	224	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	225	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	225	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	226	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0439	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	226	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	227	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	227	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0431	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	228	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0439	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	228	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	229	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	229	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	230	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0439	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	230	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0434	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	231	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0424	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	231	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.042	1.0372	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	232	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	232	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	233	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	233	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	234	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	234	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	235	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	235	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	236	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0444	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	236	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.044	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	237	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0444	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	237	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.044	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	238	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0416	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	238	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0413	1.0372	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	239	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.05	1.043	H	1.0379	1.0329	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	240	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.05	1.043	H	1.0379	1.0329	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	241	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	241	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	242	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	242	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0436	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	243	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0443	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	243	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.0439	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	244	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.045	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	245	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0438	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	245	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0434	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	252	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0402	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	263	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0435	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.058	1.048	H	1.0481	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0723	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0656	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	265	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0431	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0668	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0455	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0438	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.058	1.048	H	1.0477	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	268	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0418	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	282	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0726	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	282	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.041	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	282	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0671	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	283	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0726	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	283	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.041	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	283	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0671	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	285	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0431	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	285	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0391	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	285	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	286	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0431	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	286	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0391	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	286	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	287	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0431	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	288	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0431	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	289	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0632	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	289	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	290	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0402	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	297	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	303	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	308	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0433	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	310	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	310	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	310	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	310	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	310	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	310	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	310	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	310	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	310	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	313	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	327	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	328	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	330	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	330	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	330	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	331	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	331	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	331	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	332	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	333	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	341	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	347	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	352	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0433	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	354	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	354	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	357	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	371	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	372	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	374	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	374	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	374	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	375	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	375	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	375	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	376	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	377	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	384	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0402	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	395	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	397	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	397	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	397	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0431	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	397	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	397	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	397	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	400	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	405	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	414	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0409	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	415	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0409	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	417	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	417	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0654	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	417	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0389	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	417	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	418	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	418	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0654	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	418	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0389	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	418	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	419	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0431	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	420	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0431	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	426	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	432	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	437	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0433	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0476	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	439	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.055	1.038	H	1.045	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0433	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	439	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0472	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	442	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	447	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	456	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	456	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	457	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	457	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	459	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0426	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	459	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	459	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	460	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0426	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	460	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	460	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	461	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	462	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	467	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	472	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	477	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0636	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	479	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0448	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	479	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	482	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	487	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	496	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	497	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	499	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	499	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	499	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	500	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	500	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	500	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	501	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	502	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	519	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0395	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	519	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.05	1.038	H	1.0369	1.0277	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	519	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.039	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	527	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.075	1.076	H	1.0656	1.0464	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	547	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.04	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	548	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0401	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	549	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0392	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	555	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0402	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	555	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.066	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	556	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0438	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	558	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	558	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	558	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	558	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0426	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	558	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	558	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	558	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0465	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	560	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0404	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	561	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0421	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	562	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	563	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	564	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0468	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	564	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	564	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	564	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0425	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	564	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0668	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	564	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	564	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0463	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	565	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.059	1.048	H	1.0478	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	565	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0723	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	565	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0633	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	565	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0657	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	565	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0425	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	565	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0667	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	565	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0672	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	565	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.058	1.048	H	1.0473	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	568	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0401	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	570	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.0405	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	570	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0373	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	570	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.05	1.048	H	1.0401	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	571	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0401	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	572	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	573	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	574	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.04	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	575	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0413	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	576	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0413	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	578	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0436	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	578	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0391	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	578	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0431	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	579	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0436	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	579	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0391	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	579	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0431	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	580	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0434	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	581	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0434	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	582	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0726	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	582	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0405	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	583	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0409	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	584	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0399	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.066	1.051	H	1.031	1.028	H X	0.035	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.055	1.041	H	1.0204	1.0174	H X	0.035	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	631	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	633	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0476	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	633	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	633	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	633	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	633	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	633	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	633	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0431	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	633	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	633	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0467	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	636	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	650	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	650	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	651	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	651	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	653	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	653	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	653	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	654	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	654	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	654	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	655	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	656	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	657	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	667	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0433	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0476	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	669	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0431	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	669	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0468	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	672	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	677	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	686	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	687	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	689	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	689	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	689	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	690	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	690	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	690	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	691	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.043	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	692	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.043	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	697	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0351	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	702	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0424	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	703	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0636	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	703	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0655	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	703	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0665	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	703	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.067	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0471	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0622	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0647	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0421	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0656	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	704	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0446	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0429	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.066	1.0463	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	704	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0467	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	707	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0407	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	721	[REDACTED]	340557	5SHANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0622	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	721	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0649	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	721	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.04	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	721	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0658	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	721	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0662	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	722	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0622	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	722	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0649	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	722	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.04	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	722	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0658	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	722	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0662	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	724	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	724	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0379	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	724	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0418	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	725	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	725	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0379	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	725	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0418	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	726	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.042	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	727	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.042	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	728	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.062	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	728	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.066	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	728	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.066	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	731	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.035	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	736	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0423	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	737	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0634	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	737	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0653	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	737	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0663	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	737	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0668	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	738	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0471	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	738	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.062	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	738	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0645	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	738	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.042	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	738	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0445	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	738	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0428	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	738	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0466	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	741	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0406	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	755	[REDACTED]	340557	5SHANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.062	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	755	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0647	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	755	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0398	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	755	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0656	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	755	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.066	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	756	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.062	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	756	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0647	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	756	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0398	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	756	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0656	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	756	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.066	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	758	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	758	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0378	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	758	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0418	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	759	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	759	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0378	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	759	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0418	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	760	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0419	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	761	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0419	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	762	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0658	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	767	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	771	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0397	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	772	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0719	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	772	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0632	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	772	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0652	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	772	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0663	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	772	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0668	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0435	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0708	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0615	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0387	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	773	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0652	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.054	1.038	H	1.0409	1.0277	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0392	1.0281	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.051	1.043	H	1.0372	1.0329	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0657	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	773	[REDACTED]	340622	5REIDEEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0431	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	776	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.038	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	777	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	778	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	779	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	780	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0357	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	783	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.036	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	785	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0356	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	786	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.036	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	787	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	788	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	789	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0359	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	790	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0617	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	790	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0655	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	790	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.066	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	791	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0617	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	791	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0655	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	791	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.066	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	793	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.0373	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	793	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0332	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	793	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0369	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	794	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.0373	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	794	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0332	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	794	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0369	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	795	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0393	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	796	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0393	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	797	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0658	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	798	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.052	1.043	H	1.0414	1.0329	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	803	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.04	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	804	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.072	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	804	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0633	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	804	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0653	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	804	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0664	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	804	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0669	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0439	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0709	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340556	5CALDWL	161	314	1314	0.92	1.05	1.051	1.043	H	1.0379	1.0356	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	805	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0617	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0644	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0391	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0653	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0413	1.0277	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0396	1.0281	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.051	1.043	H	1.038	1.0329	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	805	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0658	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	805	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0435	1.0372	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	806	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.05	1.048	H	1.0385	1.0376	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	808	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0383	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	814	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0361	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	816	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0361	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	817	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0357	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	822	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0712	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	822	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0619	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	822	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0656	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	822	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0661	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	823	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0712	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	823	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0619	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	823	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0656	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	823	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0661	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	824	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0334	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	825	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0377	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	825	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0336	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	825	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0374	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	826	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0377	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	826	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0336	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	826	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0374	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	827	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0396	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	828	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0396	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	829	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0659	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	830	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.05	1.048	H	1.0403	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	830	[REDACTED]	340556	5CALDWL	161	314	1314	0.92	1.05	1.053	1.043	H	1.0428	1.0356	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	830	[REDACTED]	340619	5SHOPCO	161	314	1314	0.92	1.05	1.053	1.043	H	1.0428	1.0329	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	836	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0403	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	836	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0399	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	895	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	895	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0721	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	895	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0432	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	895	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0448	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	895	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	895	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	912	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.041	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	913	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.041	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	915	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0424	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	915	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.039	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	915	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0653	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	915	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	916	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0424	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	916	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.039	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	916	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0653	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	916	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	920	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0406	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	920	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0662	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	923	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.052	1.041	H	1.0364	1.0174	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	923	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.057	1.038	H	1.0462	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	923	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.055	1.038	H	1.0445	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	926	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0437	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	927	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	928	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	929	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	930	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0431	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	931	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0425	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	932	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	933	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0433	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	934	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0431	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	935	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.041	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	935	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0408	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	935	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.05	1.048	H	1.0406	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	936	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0433	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	937	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	938	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	939	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	942	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0415	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	943	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0438	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	943	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0426	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	943	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	944	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0438	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	944	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0426	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	944	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	945	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.055	1.041	H	1.0374	1.0174	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	946	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.055	1.041	H	1.0374	1.0174	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	947	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0438	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	948	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0441	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	949	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0432	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	950	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.058	1.038	H	1.0474	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	950	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.056	1.038	H	1.0457	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	951	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0389	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	958	[REDACTED]	340557	5SHANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0636	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	962	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0722	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	962	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0636	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	962	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0655	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	962	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0667	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	962	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0672	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	970	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0453	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	970	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0728	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	970	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0661	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	970	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0673	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	970	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.0449	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	971	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0453	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	971	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0728	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	971	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0661	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	971	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0673	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	971	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.055	1.048	H	1.0449	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	977	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0308	1.028	H X	0.022	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	977	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.058	1.038	H	1.0464	1.0277	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	977	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.057	1.038	H	1.0448	1.0281	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	977	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.061	1.048	H	1.0487	1.0372	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	978	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0475	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	978	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0434	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	978	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	978	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	978	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	979	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.058	1.048	H	1.0482	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	979	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0451	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	979	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.051	1.041	H	1.0347	1.0174	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	979	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.056	1.038	H	1.0456	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	979	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.044	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	979	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.058	1.048	H	1.0478	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0636	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0448	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	980	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	980	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0636	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	981	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0448	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0431	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	981	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	982	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0471	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	982	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	982	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	982	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0427	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	982	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	982	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.057	1.038	H	1.0473	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	982	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	982	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0466	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	983	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.056	1.048	H	1.0468	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	983	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0724	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	983	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0634	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	983	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0425	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	983	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.0668	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	983	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.051	1.038	H	1.041	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	983	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0673	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	983	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0464	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	984	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	984	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0419	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	984	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.054	1.038	H	1.0444	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	984	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.052	1.038	H	1.0427	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	984	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.056	1.048	H	1.0466	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0473	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	985	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.054	1.038	H	1.0447	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.043	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	985	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0469	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	986	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0475	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	986	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	986	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0636	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	986	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	986	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	986	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	986	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	986	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	986	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0471	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0473	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0428	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	987	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.054	1.038	H	1.0447	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.043	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	987	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0468	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.058	1.048	H	1.0453	1.0376	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0712	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.062	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	988	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0646	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.04	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0656	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.056	1.038	H	1.0427	1.0277	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0411	1.0281	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0661	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	988	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.058	1.048	H	1.0449	1.0372	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	989	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0475	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	989	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	989	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	989	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	989	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	989	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	989	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0675	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	989	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0471	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0636	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0448	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	990	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0431	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	990	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	991	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	991	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0474	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	992	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0635	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0669	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0449	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0432	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	992	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.047	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	993	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.06	1.051	H	1.0445	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	993	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.057	1.038	H	1.0464	1.0277	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	993	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.056	1.038	H	1.0448	1.0281	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	994	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.06	1.051	H	1.0445	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	994	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.057	1.038	H	1.0464	1.0277	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	994	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.056	1.038	H	1.0448	1.0281	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	995	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.058	1.048	H	1.0481	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	995	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0726	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	995	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0433	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	995	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	995	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0455	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	995	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0439	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	995	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0675	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	995	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0477	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	996	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0717	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0627	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0652	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.062	1.051	H	1.0423	1.028	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0662	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.052	1.041	H	1.0318	1.0174	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.062	1.038	H	1.0471	1.0277	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	996	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.061	1.038	H	1.0454	1.0281	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340619	5SHOPCO	161	314	1314	0.92	1.05	1.053	1.043	H	1.0387	1.0329	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0666	1.0463	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0717	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0627	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0652	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.062	1.051	H	1.0423	1.028	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	997	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0662	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.052	1.041	H	1.0318	1.0174	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.062	1.038	H	1.0471	1.0277	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.061	1.038	H	1.0454	1.0281	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.053	1.043	H	1.0387	1.0329	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0666	1.0463	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	998	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.054	1.041	H	1.036	1.0174	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	998	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.056	1.038	H	1.0455	1.0277	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	998	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0438	1.0281	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	998	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.058	1.048	H	1.0476	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	999	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.054	1.041	H	1.036	1.0174	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	999	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.056	1.038	H	1.0455	1.0277	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	999	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0438	1.0281	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	999	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.058	1.048	H	1.0476	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1000	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0476	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1000	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0435	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1000	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0451	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1000	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.0434	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1000	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0472	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1001	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0728	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1001	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0439	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1001	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.056	1.038	H	1.0464	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1001	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.054	1.038	H	1.0447	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1002	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.057	1.048	H	1.0473	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1002	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0725	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1002	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0429	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1002	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.067	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1002	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.055	1.038	H	1.0447	1.0277	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1002	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.053	1.038	H	1.043	1.0281	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1002	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1002	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.057	1.048	H	1.0469	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1013	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0404	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1013	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0402	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1021	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1021	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0426	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1022	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0428	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1022	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0426	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1023	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.086	1.083	H	1.07	1.0492	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1023	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.077	1.074	H	1.0639	1.0475	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1023	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.079	1.076	H	1.0646	1.0464	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1023	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.08	1.077	H	1.065	1.0463	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1024	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.086	1.083	H	1.07	1.0492	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1024	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.077	1.074	H	1.0639	1.0475	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1024	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.079	1.076	H	1.0646	1.0464	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1024	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.08	1.077	H	1.065	1.0463	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1042	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0412	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1043	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0412	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1045	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1045	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0617	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1045	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0392	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1045	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1046	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1046	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0617	1.0429	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1046	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0392	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1046	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1050	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1052	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1053	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1054	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1055	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0414	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1056	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0409	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1057	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1058	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1059	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1060	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.039	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1061	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1062	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1063	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1064	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1065	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1066	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.043	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1067	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0398	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1068	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0432	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1068	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0408	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1068	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0429	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1069	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0432	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1069	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0408	1.028	H X	0.016	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol		
2014SP_3F	1069	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0429	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1070	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.053	1.041	H	1.0353	1.0174	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1071	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.053	1.041	H	1.0353	1.0174	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1072	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0416	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1073	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0424	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1074	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0415	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1078	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1087	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1088	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1090	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1090	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1090	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1091	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1091	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1091	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1092	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1093	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1099	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1108	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1109	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1111	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0424	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1111	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1111	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1112	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0424	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1112	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1112	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1113	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1114	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1118	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0398	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1119	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1128	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1129	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1131	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1131	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1131	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1132	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1132	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1132	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1133	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1134	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1138	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1147	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1147	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0406	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1148	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0727	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1148	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0406	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1149	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.037	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1150	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1150	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0385	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1150	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1151	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1151	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0385	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1151	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1152	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0428	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1153	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0428	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1154	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1157	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1158	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1161	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1162	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1163	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1164	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1168	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1168	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0377	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	
2014SP_3F	1168	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0417	1.0372	H X	0.010
																BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1169	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0376	H X	0.010
																BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1169	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0377	1.028	H X	0.015
																BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1169	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.048	H	1.0417	1.0372	H X	0.010
																BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1170	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0418	1.028	H X	0.014
																BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1171	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0418	1.028	H X	0.014
																BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1182	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0407	1.028	H X	0.012
																BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1183	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0407	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1185	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1185	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1185	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1186	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1186	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1186	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1187	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1188	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1198	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1199	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1201	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1201	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1201	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1202	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1202	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1202	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1203	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.043	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1204	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.043	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1213	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0407	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1214	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0407	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1216	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1216	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0386	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1216	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1217	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1217	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0386	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1217	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.042	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1218	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0428	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1219	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0428	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1227	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.0409	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1227	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0715	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1227	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0622	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1227	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0649	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1227	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0382	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1227	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0659	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1227	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0664	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1227	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.05	1.048	H	1.0406	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1228	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.048	H	1.0409	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1228	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0715	1.0492	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1228	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0622	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1228	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.075	1.074	H	1.0649	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1228	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0382	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1228	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0659	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1228	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0664	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1228	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.05	1.048	H	1.0406	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1230	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0394	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1230	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0347	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1230	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0391	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1231	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.048	H	1.0394	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1231	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0347	1.028	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1231	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0391	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1232	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.05	1.048	H	1.0402	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1232	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0404	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1233	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.05	1.048	H	1.0402	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1233	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0404	1.028	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1234	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0661	1.0464	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1240	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1241	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1243	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1243	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0389	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1243	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1244	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1244	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0389	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol		
2014SP_3F	1244	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1245	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.043	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1246	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.043	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1252	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1253	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1255	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0424	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1255	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1255	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1256	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0424	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1256	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1256	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0421	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1257	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1258	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1263	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1264	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1266	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1266	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1266	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1267	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1267	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1267	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1268	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1269	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1273	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1274	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1276	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1276	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1276	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1277	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0425	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1277	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0388	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1277	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1278	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1279	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1283	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0435	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1284	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0722	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1284	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.063	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1284	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.039	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1284	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0667	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1284	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0671	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1285	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1285	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0721	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1285	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0629	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1285	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0655	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1285	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0399	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1285	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0666	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1285	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.067	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1285	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0432	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1286	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1286	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0721	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1286	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0629	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1286	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0655	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1286	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0399	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1286	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0666	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1286	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.067	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1286	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0432	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1287	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.044	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1288	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.044	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1289	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0413	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1290	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0417	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1291	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0407	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1292	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0722	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1292	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.063	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1292	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.039	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1292	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0667	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1292	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0671	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1293	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1293	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0721	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1293	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0629	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1293	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0655	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1293	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0399	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1293	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0666	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1293	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.067	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1293	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0432	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1294	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0435	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1294	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0721	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1294	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0629	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1294	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0655	1.0475	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1294	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0399	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1294	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0666	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1294	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.067	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1294	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.053	1.048	H	1.0432	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1295	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.044	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1296	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.044	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1297	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0413	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1298	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0417	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1299	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0407	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1300	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0384	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1300	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0358	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1300	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0381	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1301	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0384	1.0376	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1301	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0358	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1301	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0381	1.0372	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1302	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0412	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1303	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0412	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.067	1.048	H	1.0473	1.0376	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340556	5CALDWL	161	314	1314	0.92	1.05	1.051	1.043	H	1.0335	1.0356	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.063	1.051	H	1.0333	1.028	H X	0.030	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.053	1.041	H	1.0228	1.0174	H X	0.030	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1307	[REDACTED]	340569	5HMP TP	161	314	1314	0.92	1.05	1.053	1.038	H	1.0339	1.0277	H X	0.019	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.055	1.038	H	1.0353	1.0281	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340619	5SHOPCO	161	314	1314	0.92	1.05	1.054	1.043	H	1.033	1.0329	H X	0.021	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.067	1.048	H	1.0471	1.0372	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1308	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0433	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1308	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0424	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1308	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.05	1.041	H	1.0319	1.0174	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1308	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.043	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1309	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0433	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1309	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0424	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1309	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.05	1.041	H	1.0319	1.0174	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1309	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.043	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1310	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0427	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1310	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0719	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1310	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0627	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1310	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0392	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1310	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0668	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1310	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0668	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1310	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1311	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1311	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0397	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1311	[REDACTED]	340619	5HOPCO	161	314	1314	0.92	1.05	1.05	1.043	H	1.0403	1.0329	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1311	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0437	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1312	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1312	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1312	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1313	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0433	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1313	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0424	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1313	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.05	1.041	H	1.0319	1.0174	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1313	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.043	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1314	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.0433	1.0376	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1314	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0424	1.028	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1314	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.05	1.041	H	1.0319	1.0174	H X	0.018	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1314	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.043	1.0372	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1315	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0427	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1315	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0719	1.0492	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1315	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.075	1.073	H	1.0627	1.0429	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1315	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0392	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1315	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0668	1.0464	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1315	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0668	1.0463	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1315	[REDACTED]	340622	5REITDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0423	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1316	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.054	1.048	H	1.044	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	1316	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0397	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1316	[REDACTED]	340619	5SHOPCO	161	314	1314	0.92	1.05	1.05	1.043	H	1.0403	1.0329	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1316	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0437	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1317	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.048	H	1.0422	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1317	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0387	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1317	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.048	H	1.0419	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1318	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.055	1.048	H	1.0443	1.0376	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol		
2014SP_3F	1318	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.054	1.048	H	1.0439	1.0372	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1319	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0435	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1320	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0438	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1321	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1322	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0435	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1323	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.059	1.051	H	1.0438	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1324	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.058	1.051	H	1.0429	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	1325	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1326	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0633	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1326	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	47	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0382	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	228	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	251	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	252	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	262	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0413	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	263	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0424	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	264	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.056	1.051	H	1.0428	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	265	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0414	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	267	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.053	1.051	H	1.0411	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	268	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0414	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	269	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	271	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	274	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0414	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	276	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.084	1.083	H	1.0726	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	276	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.074	1.073	H	1.0634	1.0429	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	276	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.077	1.076	H	1.067	1.0464	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	276	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.078	1.077	H	1.0674	1.0463	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	277	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0414	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	291	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	292	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	476	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0385	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	477	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0384	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	2	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0406	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	17	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0406	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	18	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0414	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	19	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0404	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	20	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0405	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	21	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0387	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	22	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0387	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	33	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0402	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	2	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.055	1.051	H	1.0406	1.028	H X	0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	17	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0406	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	20	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0405	1.028	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	21	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0387	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	22	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0387	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	33	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0402	1.028	H X	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	24	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	33	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	34	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	39	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.082	1.083	H	1.0709	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	39	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.072	1.073	H	1.0617	1.0429	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	39	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.075	1.076	H	1.0653	1.0464	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	39	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.076	1.077	H	1.0657	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	40	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.077	1.074	H	1.0658	1.0475	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	40	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.057	1.051	H	1.0445	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	42	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.054	1.051	H	1.0426	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	89	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0383	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	145	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.082	1.083	H	1.0711	1.0492	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	145	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.072	1.073	H	1.0618	1.0429	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	145	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.075	1.076	H	1.0655	1.0464	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	145	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.076	1.077	H	1.0659	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	411	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.0386	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	60	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0405	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	74	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.052	1.051	H	1.0408	1.028	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	95	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.05	1.051	H	1.039	1.028	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.263	1.083	H	1.2531	1.0796	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340563	7COLEMAN	345	314	1314	0.92	1.05	1.255	1.056	H	1.2453	1.0531	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.255	1.077	H	1.2453	1.0736	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.249	1.076	H	1.2394	1.0729	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.244	1.073	H	1.2339	1.0693	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	4	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.137	1.051	H	1.1268	1.0435	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	4	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.128	1.041	H	1.1173	1.0331	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	219	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.093	1.051	H	1.082	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	239	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.091	1.051	H	1.0794	1.0435	H	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	240	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.091	1.051	H	1.0794	1.0435	H	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	103	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.087	1.051	H	1.0766	1.0435	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	238	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.087	1.051	H	1.0766	1.0435	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	231	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.087	1.051	H	1.0754	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	151	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.086	1.051	H	1.0751	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	220	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.088	1.051	H	1.075	1.0435	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	213	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.086	1.051	H	1.0746	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	212	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.086	1.051	H	1.0742	1.0435	H	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	11	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0741	1.0796	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.085	1.083	H	1.0741	1.0796	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	219	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.083	1.041	H	1.0719	1.0331	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.081	1.083	H	1.0708	1.0796	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	239	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.081	1.041	H	1.0694	1.0331	H	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	240	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.081	1.041	H	1.0694	1.0331	H	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	11	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0679	1.0736	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.079	1.077	H	1.0679	1.0736	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	26	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.077	1.073	H	1.0674	1.0693	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3F	11	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0672	1.0729	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.078	1.076	H	1.0672	1.0729	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	103	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.077	1.041	H	1.0665	1.0331	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	238	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.077	1.041	H	1.0665	1.0331	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	11	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0657	1.0709	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	1.076	1.074	H	1.0657	1.0709	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	231	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.077	1.041	H	1.0653	1.0331	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	151	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.076	1.041	H	1.0649	1.0331	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	220	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.078	1.041	H	1.0649	1.0331	H	0.014	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	27	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0647	1.0693	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.075	1.077	H	1.0647	1.0736	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1307	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0647	1.0693	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	213	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.076	1.041	H	1.0645	1.0331	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.074	1.076	H	1.0642	1.0729	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	212	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.076	1.041	H	1.0641	1.0331	H	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	11	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0629	1.0693	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.076	1.073	H	1.0629	1.0693	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	76	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.072	1.073	H	1.0593	1.0693	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	950	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.068	1.051	H	1.0573	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	1013	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.067	1.073	H	1.0573	1.0693	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	806	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.067	1.073	H	1.0569	1.0693	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact	
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments	
2014SP_3F	774	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.067	1.073	H	1.0568	1.0693	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed	
2014SP_3F	75	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.067	1.048	H	1.0566	1.0427	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed	
2014SP_3F	75	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.067	1.048	H	1.0562	1.0424	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed	
2014SP_3F	75	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.065	1.051	H	1.0544	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed	
2014SP_3F	75	[REDACTED]	340569	5HM TP	161	314	1314	0.92	1.05	1.065	1.038	H	1.0541	1.0322	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed	
2014SP_3F	970	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.064	1.051	H	1.0531	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed	
2014SP_3F	971	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.064	1.051	H	1.0531	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed	

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	998	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.064	1.051	H	1.0525	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	999	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.064	1.051	H	1.0525	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	75	[REDACTED]	340570	5HMP&L	161	314	1314	0.92	1.05	1.063	1.038	H	1.0524	1.0329	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.065	1.048	H	1.0515	1.0427	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.065	1.048	H	1.0515	1.0427	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	25	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.062	1.051	H	1.0514	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	923	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.062	1.051	H	1.0514	1.0435	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	962	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0512	1.0435	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	996	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.064	1.048	H	1.0511	1.0424	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	997	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.064	1.048	H	1.0511	1.0424	H	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	804	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0504	1.0435	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	11	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.072	1.048	H	1.0503	1.0427	H	0.022	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	623	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.072	1.048	H	1.0503	1.0427	H	0.022	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3F	977	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.061	1.048	H	1.0502	1.0427	H	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3F	772	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	1.061	1.051	H	1.0501	1.0435	H	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	158	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	1.05	1.028	H	1.0382	1.0141	H X	0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	163	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.074	1.071	H	1.0641	1.0465	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	163	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.075	1.072	H	1.0644	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	164	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	1.07	1.067	H	1.0594	1.0428	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	164	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	1.074	1.071	H	1.0638	1.0465	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	164	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.075	1.072	H	1.0641	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_3E	165	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.08	1.078	H	1.0704	1.0492	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	166	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.08	1.078	H	1.0704	1.0492	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	169	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.08	1.078	H	1.0706	1.0492	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	184	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.08	1.078	H	1.0703	1.0492	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	739	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.08	1.078	H	1.0704	1.0492	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	1004	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	1.08	1.078	H	1.0696	1.0492	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3E	1004	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	1.074	1.072	H	1.0646	1.0463	H X	0.010	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3C	11	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.036	H	1.0279	1.0301	H X	0.023	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	623	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.036	H	1.0279	1.0301	H X	0.023	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340566	5MEADE	161	314	1314	0.92	1.05	0.727	1.009	L	0.7419	1.0078	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	0.64	1.016	L	0.6716	1.0068	L	-0.032	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.622	1.005	L	0.6544	0.9959	L	-0.032	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.466	1.025	L	0.4929	1.0215	L	-0.027	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	0.408	1.02	L	0.435	1.0166	L	-0.027	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3C	4	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.405	1.017	L	0.4309	1.0127	L	-0.026	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.395	1.022	L	0.4212	1.0196	L	-0.026	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.395	1.019	L	0.4212	1.0155	L	-0.026	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3C	4	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.385	1.018	L	0.4115	1.0145	L	-0.026	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	216	[REDACTED]	253580	10NTVL16	161	210	1210	0.9	1.1	0.897	1.015	L	0.9809	1.0158	L X	-0.084	BREC Comments: SIGE Comments: Open the Newtonville - Coleman line (253580 - 248435 - 340552). There are known voltage issues and even an Op Guide for this area (the Op Guide is named [REDACTED]) MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3B	217	[REDACTED]	253580	10NTVL16	161	210	1210	0.9	1.1	0.9	1.015	L	0.9859	1.0158	L X	-0.086	BREC Comments:  SIGE Comments: Open the Newtonville - Coleman line (253580 - 248435 - 340552). There are known voltage issues and even an Op Guide for this area (the Op Guide is named [REDACTED])  MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	221	[REDACTED]	253580	10NTVL16	161	210	1210	0.9	1.1	0.898	1.015	L	0.9818	1.0158	L X	-0.084	BREC Comments:  SIGE Comments: Open the Newtonville - Coleman line (253580 - 248435 - 340552). There are known voltage issues and even an Op Guide for this area (the Op Guide is [REDACTED])  MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	54	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.902	1.016	L	0.9784	1.0161	L X	-0.076	BREC Comments:  SIGE Comments:  MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	54	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.906	1.015	L	0.9775	1.0147	L X	-0.072	BREC Comments:  SIGE Comments:  MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	54	[REDACTED]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.904	1.021	L	0.9787	1.021	L X	-0.074	BREC Comments:  SIGE Comments:  MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3B	54	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	0.909	1.018	L	0.9807	1.0184	L X	-0.072	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	54	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.904	1.017	L	0.9787	1.0173	L X	-0.074	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	71	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.918	1.015	L	0.9507	1.0147	L X	-0.033	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	103	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.919	1.016	L	0.9795	1.0161	L X	-0.060	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	216	[REDACTED]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.897	1.015	L	0.9808	1.0158	L X	-0.084	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	217	[REDACTED]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.9	1.015	L	0.9859	1.0158	L X	-0.086	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	220	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.919	1.016	L	0.9765	1.0161	L X	-0.058	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3B	221	[REDACTED]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.898	1.015	L	0.9818	1.0158	L X	-0.084	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	222	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.911	1	L	0.9647	0.9989	L X	-0.054	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	227	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.902	1.016	L	0.9732	1.0161	L X	-0.072	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	227	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.905	1.015	L	0.9718	1.0147	L X	-0.067	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	227	[REDACTED]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.904	1.021	L	0.9732	1.021	L X	-0.070	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	227	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	0.907	1.018	L	0.9749	1.0184	L X	-0.068	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	227	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.904	1.017	L	0.9732	1.0173	L X	-0.070	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element							BREC Green Station OFF			BREC Green Station On			Unit Impact	
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3B	238	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.919	1.016	L	0.9795	1.0161	L X	-0.060	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	239	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.919	1.016	L	0.9794	1.0161	L X	-0.060	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	240	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.919	1.016	L	0.9794	1.0161	L X	-0.060	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	243	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.91	1.016	L	0.9764	1.0161	L X	-0.066	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	243	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.913	1.015	L	0.9749	1.0147	L X	-0.062	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	243	[REDACTED]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.912	1.021	L	0.9764	1.021	L X	-0.065	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	243	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	0.915	1.018	L	0.978	1.0184	L X	-0.063	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3B	243	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.912	1.017	L	0.9764	1.0173	L X	-0.065	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	222	[REDACTED]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.864	1.023	L	0.8765	1.0231	L	-0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	222	[REDACTED]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.867	1.021	L	0.8781	1.021	L	-0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	222	[REDACTED]	340564	5NATAL	161	314	1314	0.92	1.05	0.866	1.018	L	0.8775	1.0184	L	-0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	222	[REDACTED]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.867	1.017	L	0.8781	1.0173	L	-0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	222	[REDACTED]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.866	1.016	L	0.8774	1.0162	L	-0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_3B	222	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.869	1.015	L	0.8802	1.0147	L	-0.012	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_3B	222	[REDACTED]	340566	5MEADE	161	314	1314	0.92	1.05	0.842	1.008	L	0.855	1.0085	L	-0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2C	11	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.033	H	1.028	1.028	H X	0.024	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2C	27	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.033	H	1.0315	1.028	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2C	27	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.033	H	1.0314	1.0277	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2C	623	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.033	H	1.028	1.028	H X	0.024	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2C	1307	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.051	1.033	H	1.0315	1.028	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2C	1307	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.051	1.033	H	1.0314	1.0277	H X	0.020	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_2B	21	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.919	1.024	L	0.9507	1.0242	L X	-0.032	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	71	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.889	1.024	L	0.9507	1.0242	L X	-0.061	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	71	[REDACTED]	340559	5DAVIS	161	314	1314	0.92	1.05	0.919	1.014	L	0.9778	1.016	L X	-0.059	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	71	[REDACTED]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.907	1.003	L	0.9665	1.0052	L X	-0.060	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	120	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.906	1.024	L	0.9507	1.0242	L X	-0.044	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	168	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.905	1.024	L	0.9507	1.0242	L X	-0.046	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	215	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.917	1.024	L	0.9507	1.0242	L X	-0.033	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_2B	769	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.912	1.024	L	0.9507	1.0242	L X	-0.039	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	801	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.913	1.024	L	0.9507	1.0242	L X	-0.038	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	872	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.92	1.024	L	0.9507	1.0242	L X	-0.031	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	874	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.92	1.024	L	0.9507	1.0242	L X	-0.031	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	878	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.915	1.024	L	0.9507	1.0242	L X	-0.036	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	885	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.906	1.024	L	0.9507	1.0242	L X	-0.044	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	886	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.91	1.024	L	0.9507	1.0242	L X	-0.041	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_2B	887	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.91	1.024	L	0.9507	1.0242	L X	-0.041	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	892	[REDACTED]	340557	5HANCO	161	314	1314	0.92	1.05	0.919	1.024	L	0.9507	1.0242	L X	-0.031	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	64	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7179	1.048	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	65	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7179	1.048	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	66	[REDACTED]	360430	5HARRIMAN	161	347	1368	0.9	1.1	0.701	1.043	L	0.7177	1.0431	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	66	[REDACTED]	360692	5ROANE B#2	161	347	1368	0.9	1.1	0.701	1.048	L	0.718	1.0483	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	66	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7179	1.048	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_2B	66	[REDACTED]	361383	5W OAK RIDGE	161	347	1368	0.9	1.1	0.701	1.048	L	0.718	1.0483	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	64	[REDACTED]	360430	SHARRIMAN	161	347	1368	0.9	1.1	0.701	1.043	L	0.7177	1.0431	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	64	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7176	1.0478	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	64	[REDACTED]	361383	5W OAK RIDGE	161	347	1368	0.9	1.1	0.701	1.048	L	0.718	1.0483	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	65	[REDACTED]	360430	SHARRIMAN	161	347	1368	0.9	1.1	0.701	1.043	L	0.7177	1.0431	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	65	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7176	1.0478	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_2B	65	[REDACTED]	361383	5W OAK RIDGE	161	347	1368	0.9	1.1	0.701	1.048	L	0.718	1.0483	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

## MISO BREC Green Station Attachment Y Study - Compare Voltage Results

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_2B	66	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.701	1.048	L	0.7176	1.0478	L	-0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	11	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.056	1.039	H	1.0348	1.0338	H X	0.021	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	27	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.039	H	1.0355	1.0338	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	27	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.039	H	1.0354	1.0335	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	75	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.039	H	1.0413	1.0338	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	75	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.039	H	1.0409	1.0335	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	623	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.056	1.039	H	1.0348	1.0338	H X	0.021	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	
2014SP_1C	977	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.053	1.039	H	1.0421	1.0338	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	977	[REDACTED]	340569	5HMTP	161	314	1314	0.92	1.05	1.05	1.029	H	1.0396	1.0244	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	977	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.039	H	1.0419	1.0335	H X	0.011	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	996	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.039	H	1.0395	1.0338	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	996	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.039	H	1.0391	1.0335	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	997	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.039	H	1.0395	1.0338	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	997	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.039	H	1.0391	1.0335	H X	0.013	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Model	Ncon	Contingency Description	Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
			Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_1C	1307	[REDACTED]	340551	5REID	161	314	1314	0.92	1.05	1.052	1.039	H	1.0355	1.0338	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	1307	[REDACTED]	340622	5REIDEHV	161	314	1314	0.92	1.05	1.052	1.039	H	1.0354	1.0335	H X	0.017	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	48	[REDACTED]	361158	5MURPHY#2	161	347	1367	0.9	1.1	0.741	1.015	L	0.7435	1.0147	L	-0.002	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	209	[REDACTED]	361364	5WEAVER GA	161	347	1367	0.9	1.1	0.771	1.009	L	0.7732	1.0087	L	-0.002	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	66	[REDACTED]	360430	5HARRIMAN	161	347	1368	0.9	1.1	0.703	1.043	L	0.7181	1.0432	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	64	[REDACTED]	360430	5HARRIMAN	161	347	1368	0.9	1.1	0.703	1.043	L	0.7181	1.0432	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	64	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0481	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_1C	64	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.718	1.0478	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	64	[REDACTED]	361383	5W OAK RIDGE	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0483	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	65	[REDACTED]	360430	5HARRIMAN	161	347	1368	0.9	1.1	0.703	1.043	L	0.7181	1.0432	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	65	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0481	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	65	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.718	1.0478	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	65	[REDACTED]	361383	5W OAK RIDGE	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0483	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	66	[REDACTED]	360692	5ROANE B#2	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0483	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed

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Contingency			Limiting Element								BREC Green Station OFF			BREC Green Station On			Unit Impact
Model	Ncon	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Voff-Von (>0.01)	Comments
2014SP_1C	66	[REDACTED]	361099	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0481	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	66	[REDACTED]	361146	5BLAIR RD	161	347	1368	0.9	1.1	0.703	1.048	L	0.718	1.0478	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed
2014SP_1C	66	[REDACTED]	361383	5W OAK RIDGE	161	347	1368	0.9	1.1	0.703	1.048	L	0.7184	1.0483	L	-0.015	BREC Comments: SIGE Comments: MISO Comments: Cat C constraint, can be mitigated by load shed