



***MISO Guide to
FERC Electric Quarterly Reporting***
(formerly known as Attachment B)

For Operating Days after JAN-05-2009



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A Purpose

The MISO Guide to FERC Electric Quarterly Reporting defines MISO's role in reporting transactions between Market Participants¹ and MISO. This document identifies the types of Market transactions that will be reported and how the volumes are determined.

B Scope

These descriptions apply to the Operating Days after January 5, 2009.

C FERC Electric Quarterly Reporting

Since the start of the Energy Markets and continuing with the opening of the Energy and Operating Reserve Markets, MISO has assumed some of the responsibility for reporting transactions to the Federal Energy Regulatory Commission (FERC) through the Electric Quarterly Reports (EQR). The main responsibility for EQRs, however, currently resides with the Market Participants. MISO reports only transactions that occur between a Market Participant and MISO. Bilateral transactions continue to be reported by individual parties. The transactions that MISO reports involve the Market Participant's NET MARKET ACTIVITY FOR ENERGY AT EACH NODE AND MARKET ACTIVITY FOR REGULATING RESERVE, SPINNING RESERVE AND SUPPLEMENTAL RESERVE AT EACH NODE. The general criteria for determining whether a transaction is 'MISO reportable' is: 'is it a sale?' It is not necessary to report both the sale and purchase halves of a transaction.

Transactions reported by MISO fall into three categories: Energy, Operating Reserve and Uplift. Make Whole Payments to ensure Revenue Sufficiency for Generators committed by MISO in both the Day-Ahead and Real-Time markets are reportable as Uplift. Transactions reportable as Energy are derived from the market charge type calculations for Day-Ahead Asset Energy, Real-Time Excessive Energy and Non-Excessive Energy and Day-Ahead, Real-Time Non-Asset Energy & Net Regulation Generation Adjustment. Transactions reportable as Operating Reserve are derived from

¹ Capitalized terms have the meaning set forth in MISO's Open Access Transmission, Energy and Operating Reserve Markets Tariff.



the market charge type calculations for Day-Ahead & Real-Time Regulation, Spinning Reserve and Supplemental Reserve.

As a rule, since the bilateral transactions for Energy are still reported by the parties, MISO will 'directionally net' them from the spot market transactions for Energy at the same node to avoid reporting the same MW twice. Directional netting for EQR reporting closely resembles the methods used in determining the Day-Ahead/Real-Time Energy volumes and the Day-Ahead/Real-Time Administration volumes.

In order to completely understand what directional netting means it is necessary to examine what transaction volumes would be reported in a vast number of scenarios. In some cases MISO will report net market purchases as 'negative sales'. Negative sales occur only in Real-Time, and are defined as net Real-Time market purchases where there were reportable sales in the Day-Ahead. In general, negative sales occur when injection obligations from the Day-Ahead market are not met in Real-Time by Non-Excessive Energy injection, Financial Schedules or a combination of the two.

Files created by MISO will be accessible via the Web Portal. EQR files created for each month use data from the S14 settlement run, and quarterly files use data from the S105 settlement run. Data in these files will be organized in the following product names. The following is a list of the different product names along with a brief description.

Energy – Net of Day-Ahead Asset Energy, Real-Time Excessive Energy and Non-Excessive Energy and Day-Ahead, Real-Time Non-Asset Energy charge types at a specific CPNode by hour.

Regulation & Frequency Response – Net of Day Ahead & Real Time ASM Regulation charge types at a specific CPNode by hour.

Spinning Reserve – Net of Day Ahead & Real Time ASM Spinning Reserve charge types at a specific CPNode by hour.

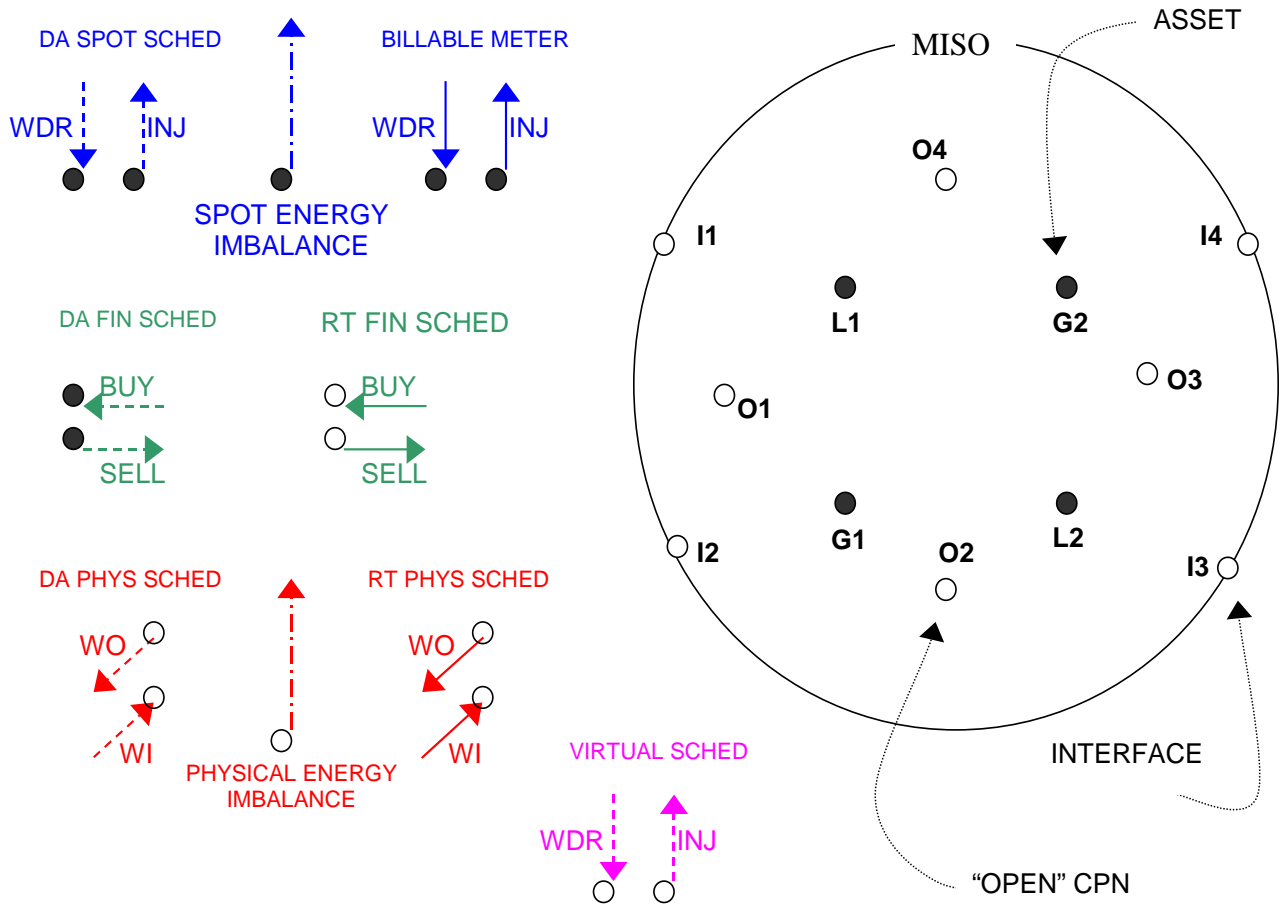


Supplemental Reserve – Net of Day Ahead & Real Time ASM Supplemental Reserve charge types at a specific CPNode by hour.

Net Regulation – Net Regulation Generation Adjustment charge type at a specific CPNode by hour. This amount can be either positive or negative and should be used to adjust the Energy when submitting to FERC. The quantity will be displayed as “1” but there is no megawatt impact to the Energy quantity that is submitted to FERC.

Uplift – Day Ahead and Real Time Revenue Sufficiency Guarantee Make Whole Payment charge types at a specific CPNode by hour.

Exhibit C- 1: Symbol Definition Used in Exhibits

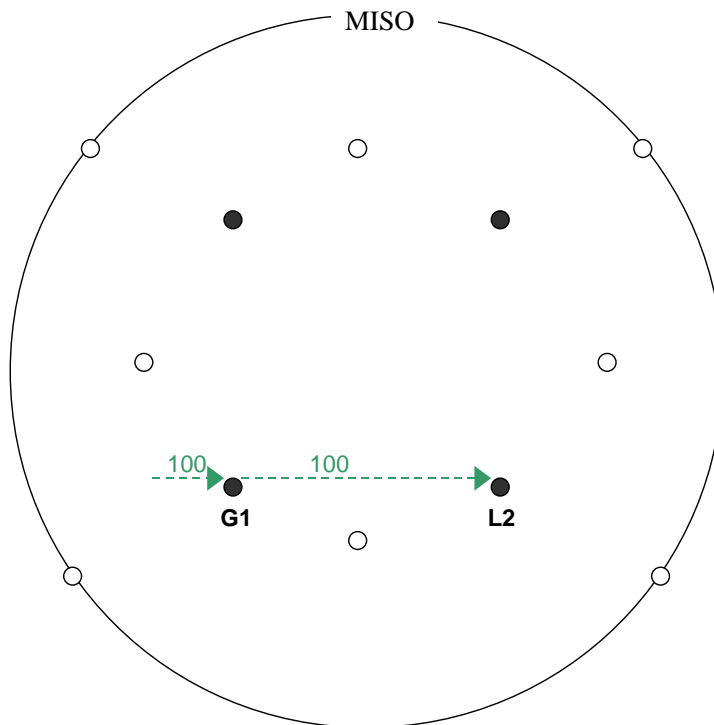


C.1 MISO reported EQR transactions

C.1.1 Day-Ahead MW at an Asset

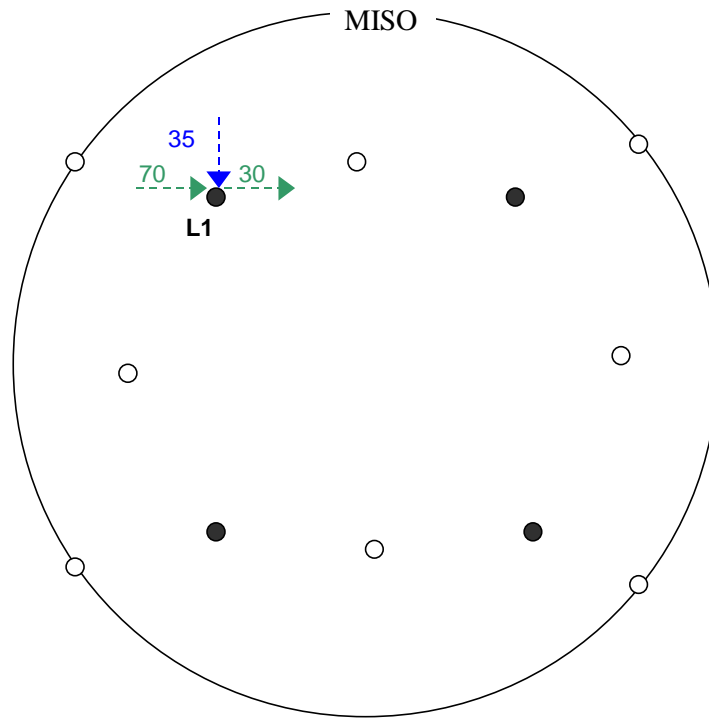
The following exhibits provide examples of MISO reporting scenarios for Day-Ahead MW at an Asset.

Exhibit C- 2: DA 100 MW Sale at L2



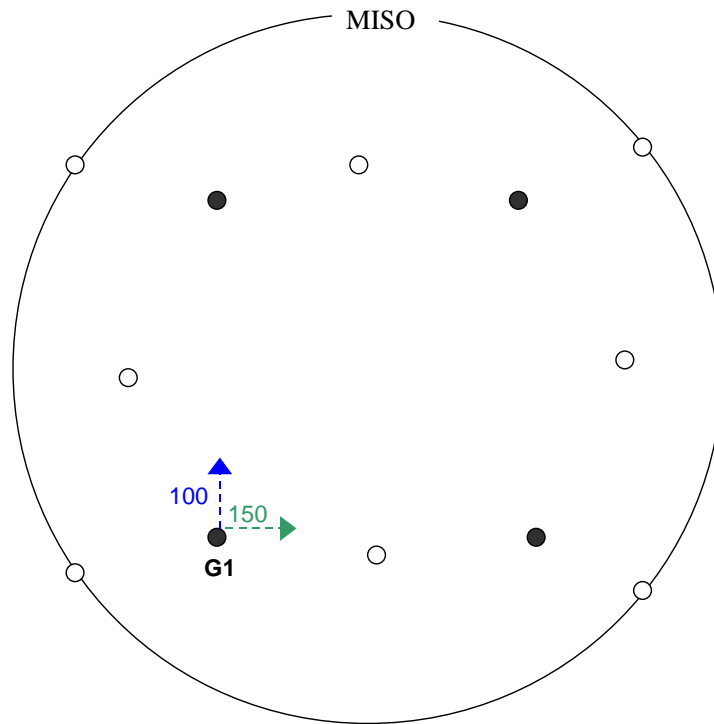
MISO will report one transaction: a DA 100 MW sale at L2

Exhibit C- 3: DA 5 MW Sale at L1



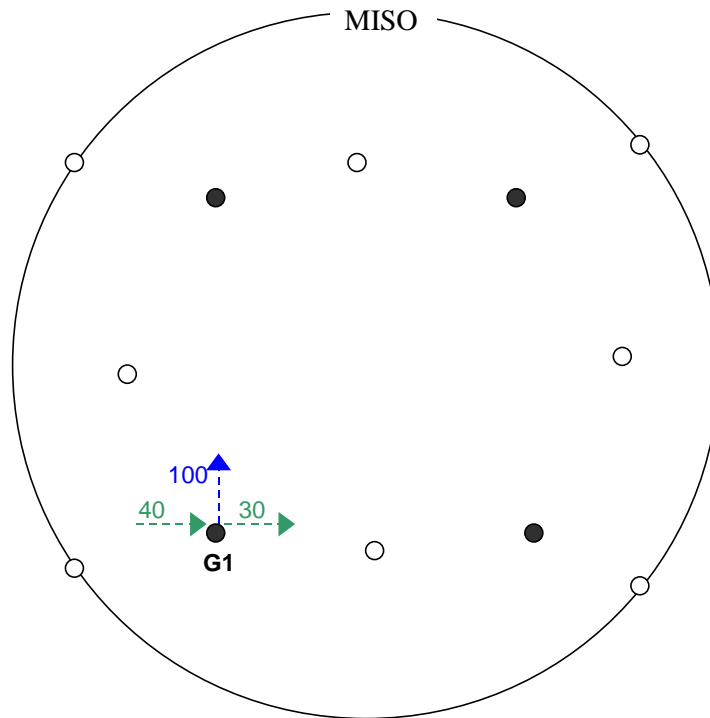
MISO will report one transaction: a DA 5 MW sale at L1

Exhibit C- 4: No DA Transactions Reported



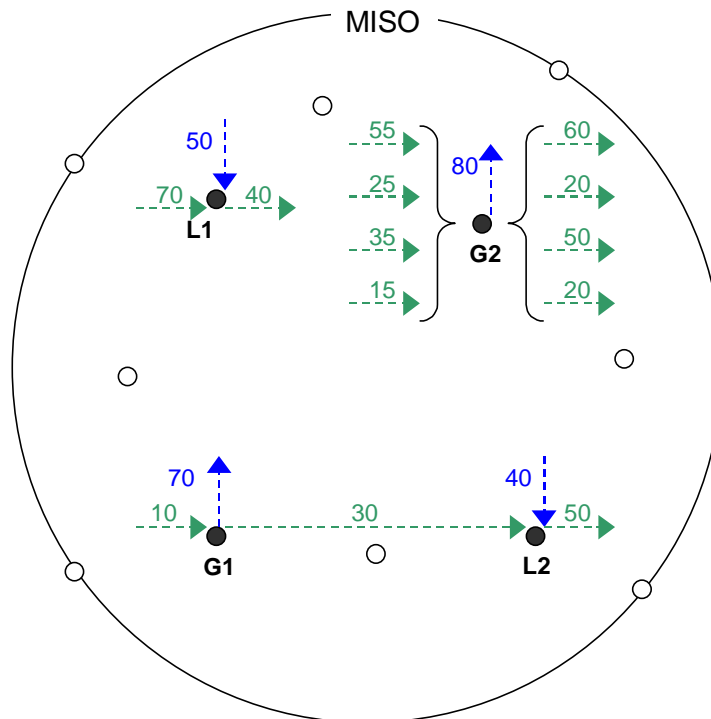
MISO will not report any transactions

Exhibit C- 5: DA 110 MW Sale at G1



MISO will report one transaction: a DA 110 MW sale at G1

Exhibit C- 6: DA 50 MW Sale at G1 & 60 MW Sale at G2

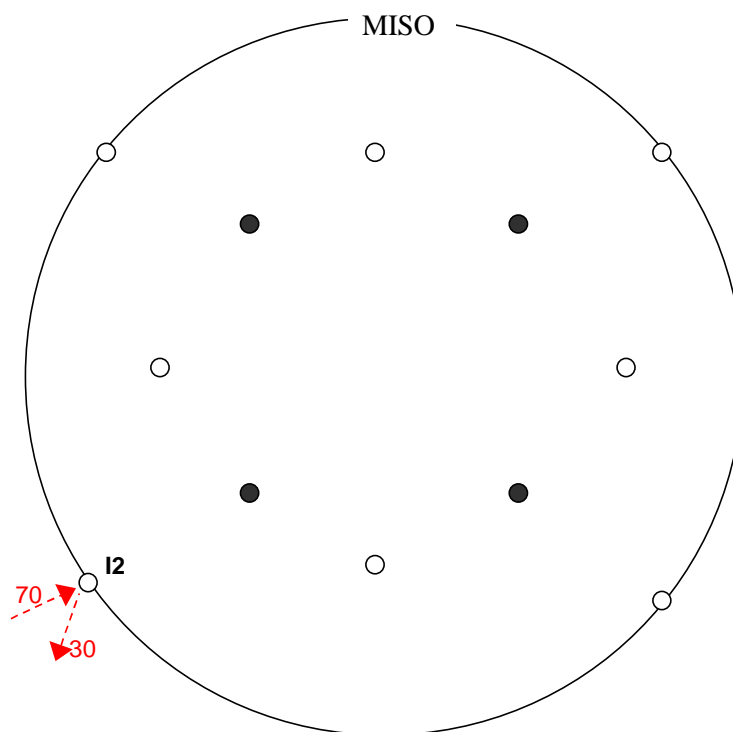


MISO will report two transactions: a DA 50 MW sale at G1 & a DA 60 MW sale at G2

C.1.2 Day-Ahead MW at an Interface

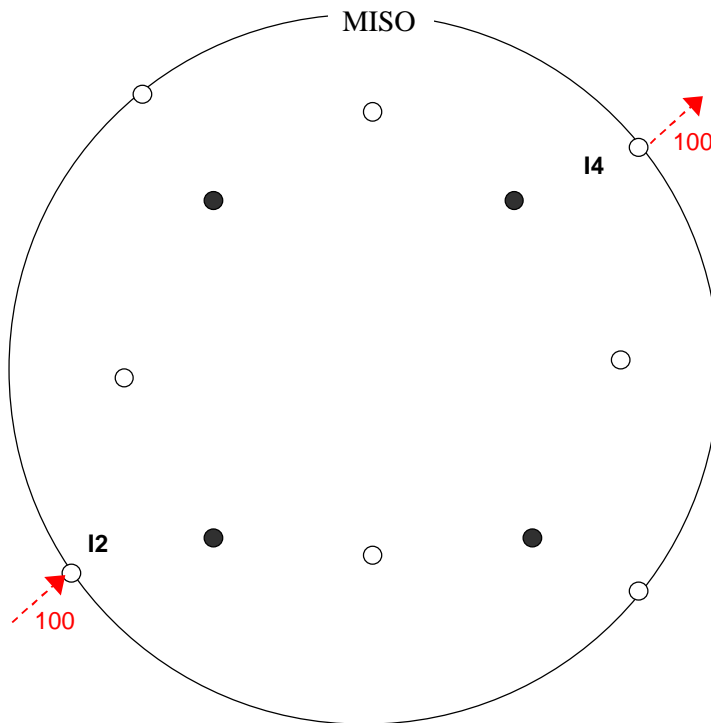
The following exhibits provide examples of MISO reporting scenarios for Day-Ahead MW at an Interface.

Exhibit C- 7: DA 40 MW Sale at I2



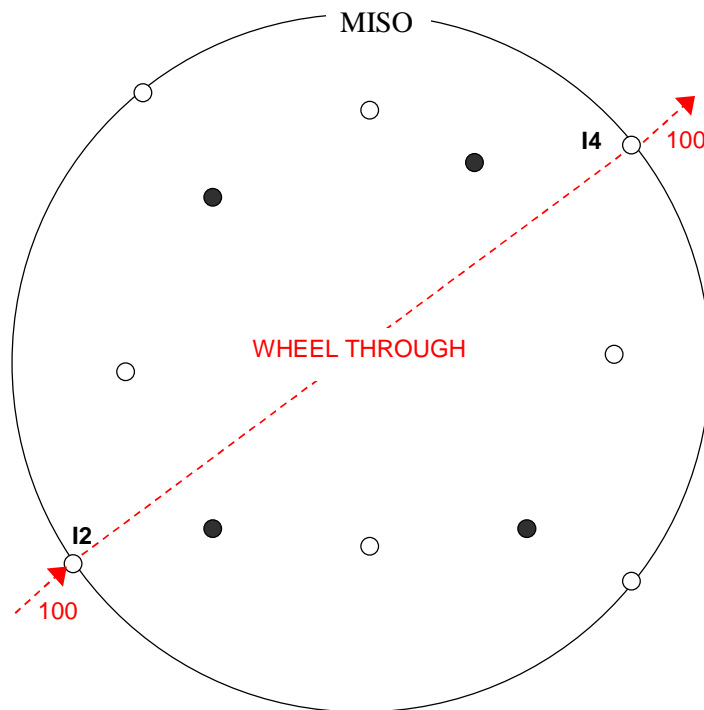
MISO will report one transaction: a DA 40 MW sale at I2

Exhibit C- 8: DA 100 MW Sale at I2



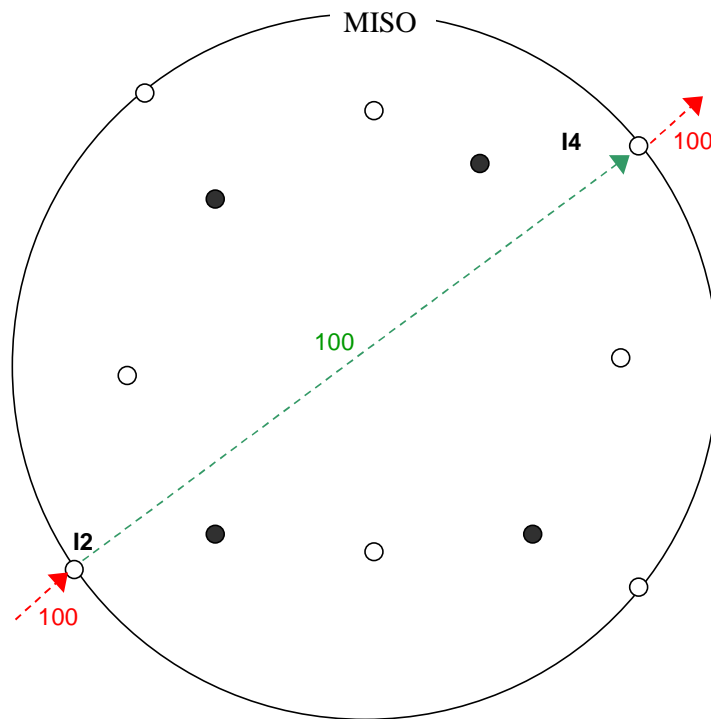
MISO will report one transaction: a DA 100 MW sale at I2

Exhibit C- 9: DA 100 MW Wheel Through Sale at I2



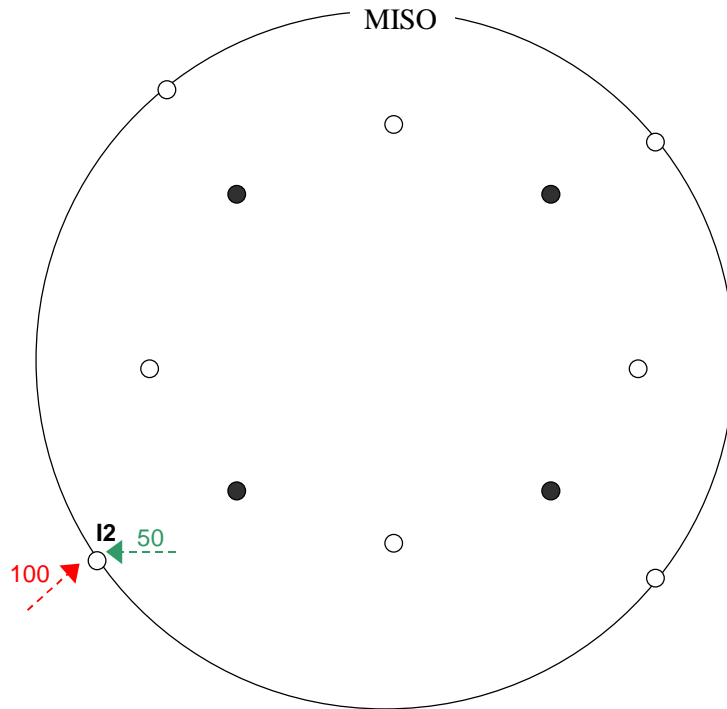
MISO will report one transaction: a DA 100 MW sale at I2

Exhibit C- 10: DA No Transaction Report #1



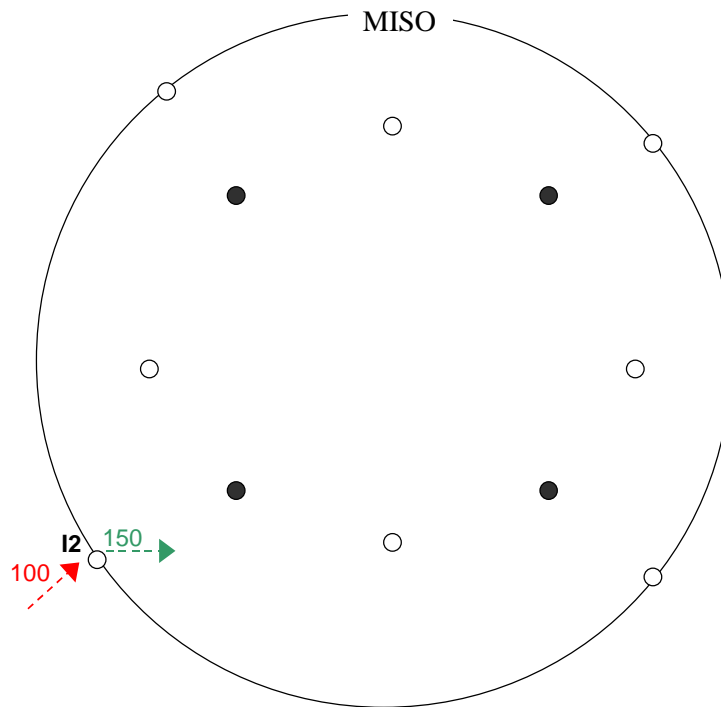
MISO will not report any transactions

Exhibit C- 11: DA 150 MW Sale at I2



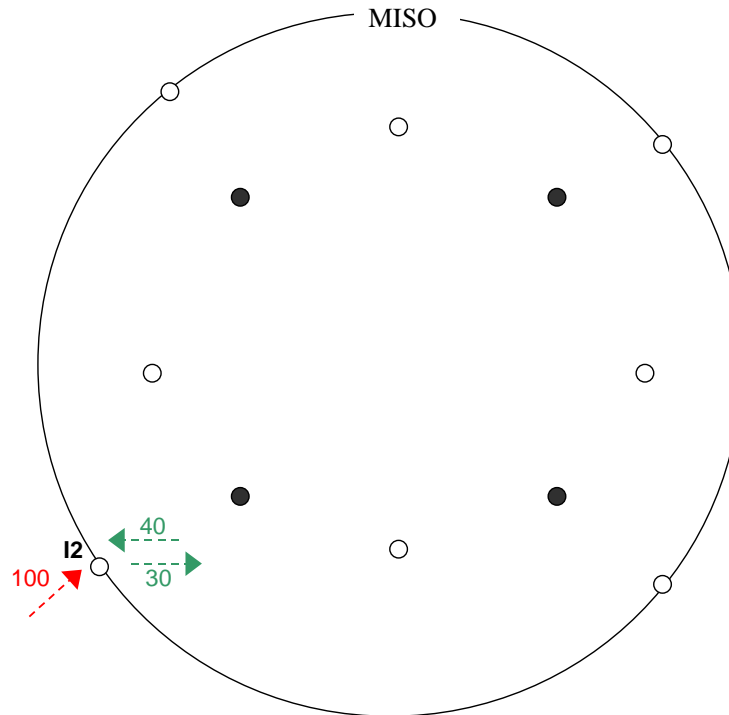
MISO will report one transaction: a 150 MW sale at I2

Exhibit C- 12: DA No Transaction Report #2



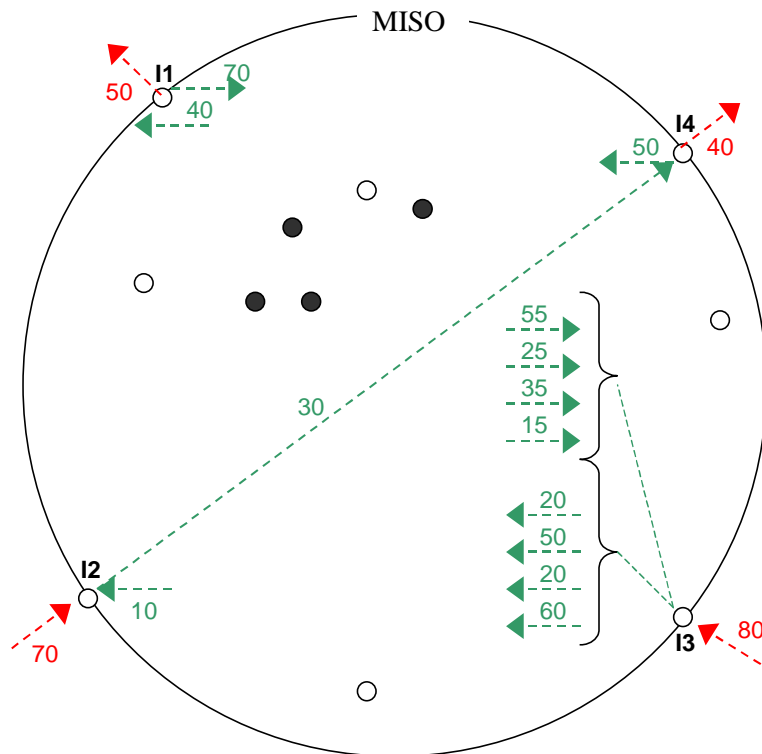
MISO will not report any transactions

Exhibit C- 13: DA 110 MW Sale at I2



MISO will report one transaction: a DA 110 MW sale at I2

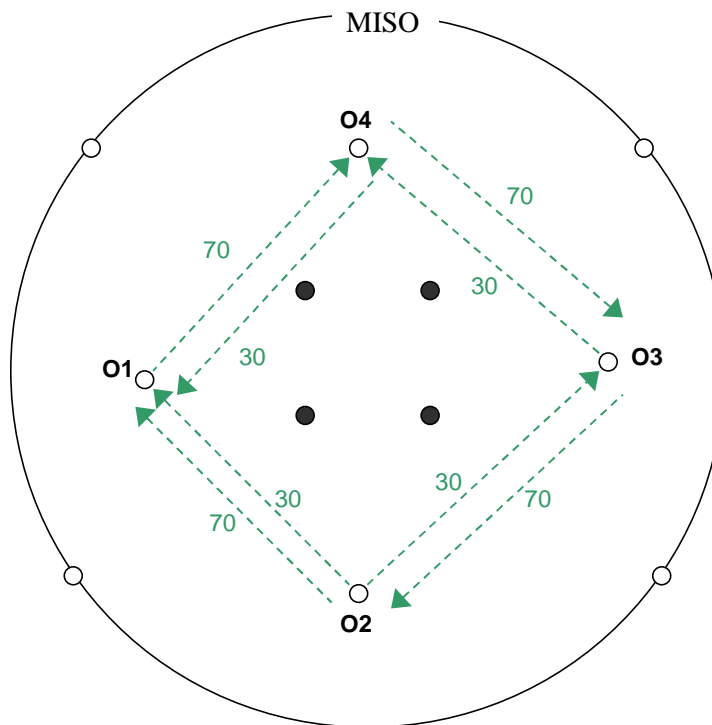
Exhibit C- 14: DA 50 MW Sale at I2 & 60 MW Sale at I3



MISO will report two transactions: a DA 50 MW sale at I2 & a DA 60 MW sale at I3

C.1.3 Day-Ahead MW at a common Commercial Pricing Node

The following exhibits provide examples of MISO reporting scenarios for Day-Ahead MW at a common Commercial Pricing Node (CPNode).



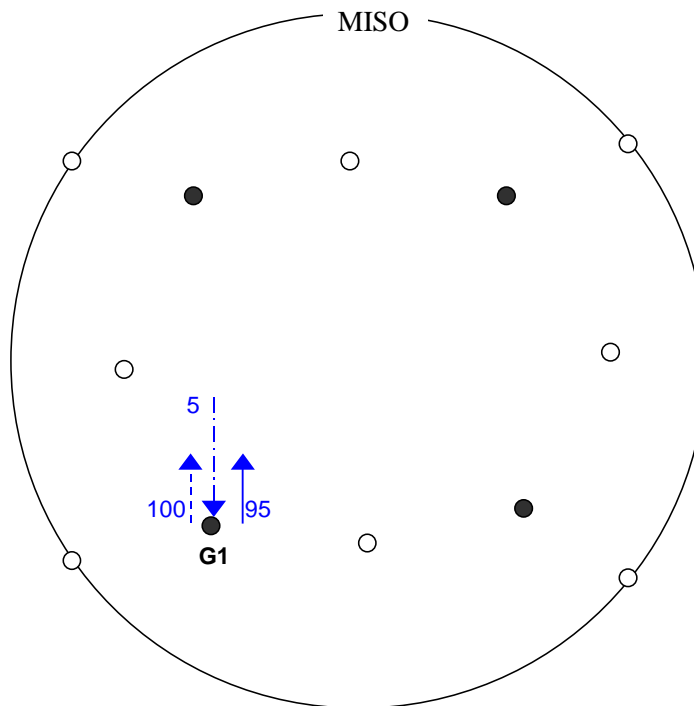
MISO will report one transaction: a DA 60 MW sale at O1

Exhibit C- 15: DA 60 MW Sale at O1

C.1.4 Real-Time MW at an Asset

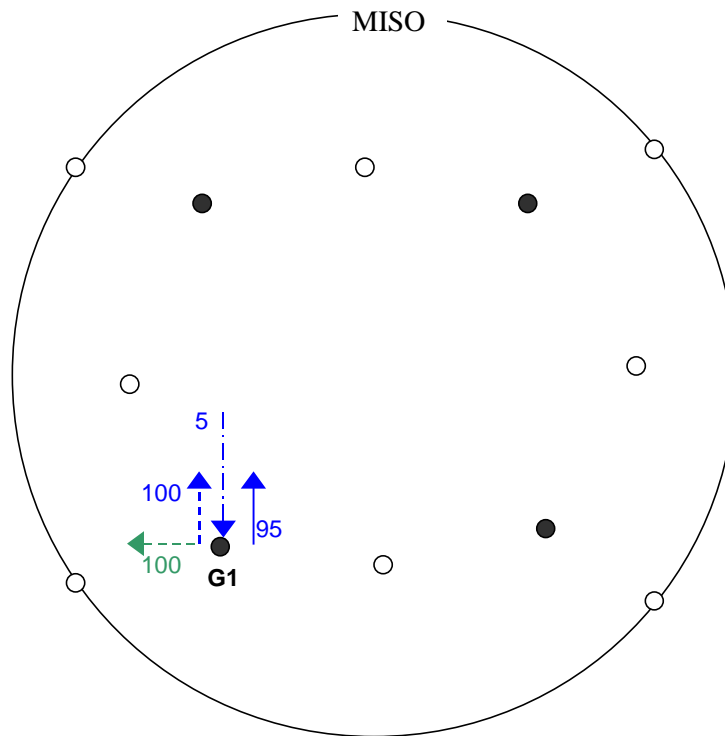
The following exhibits provide examples of MISO reporting scenarios for Real-Time MW at an Asset.

Exhibit C- 16: RT -5 MW Sale at G1



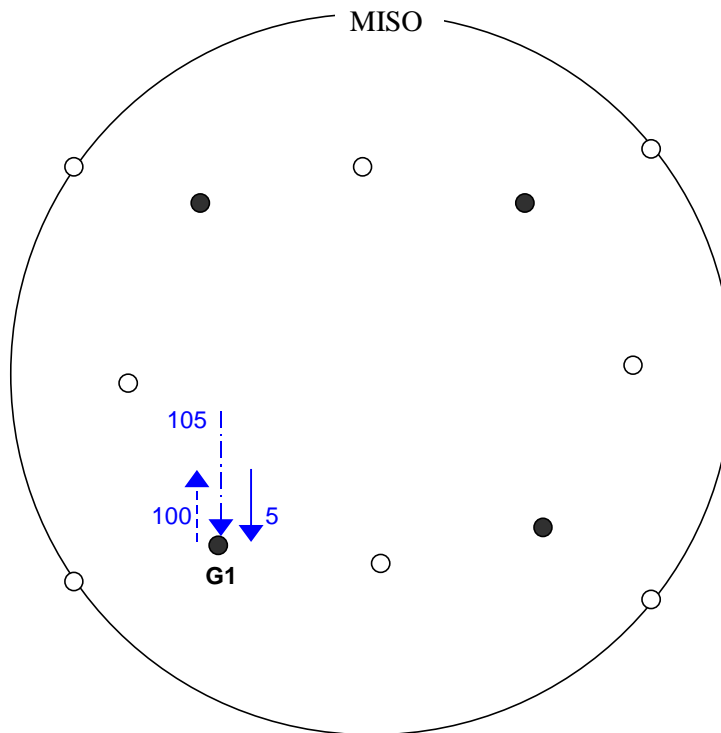
MISO will report one transaction: a RT -5 MW sale at G1

Exhibit C- 17: No RT Transactions Reported Scenario #1



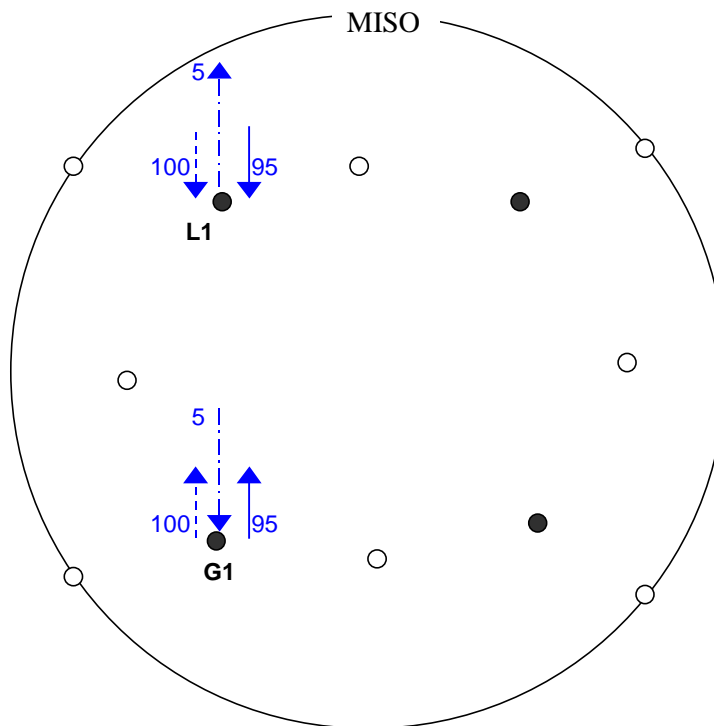
MISO will not report any transactions

Exhibit C- 18: RT -105 MW Sale at G1



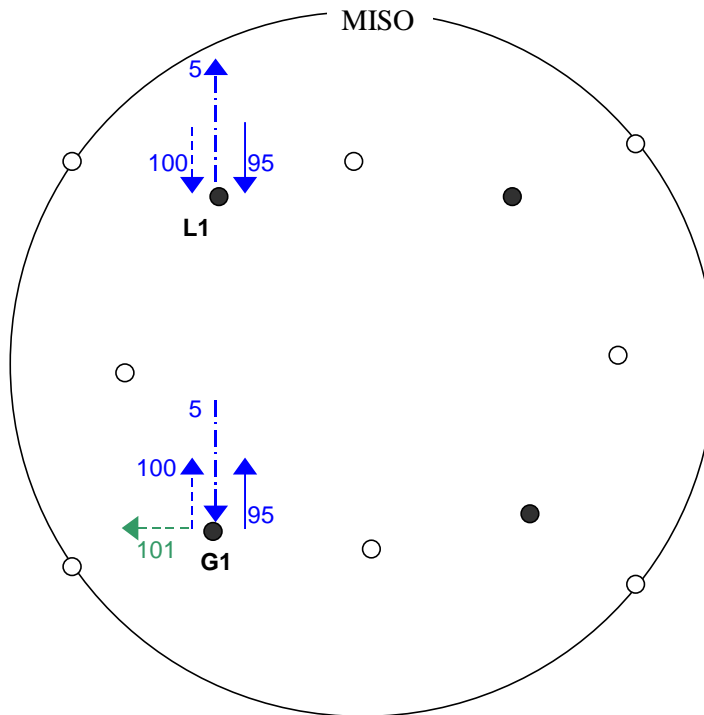
MISO will report one transaction: a RT -105 MW sale

Exhibit C- 19: RT -5 MW Sale at G1 & 5 MW Sale at L1



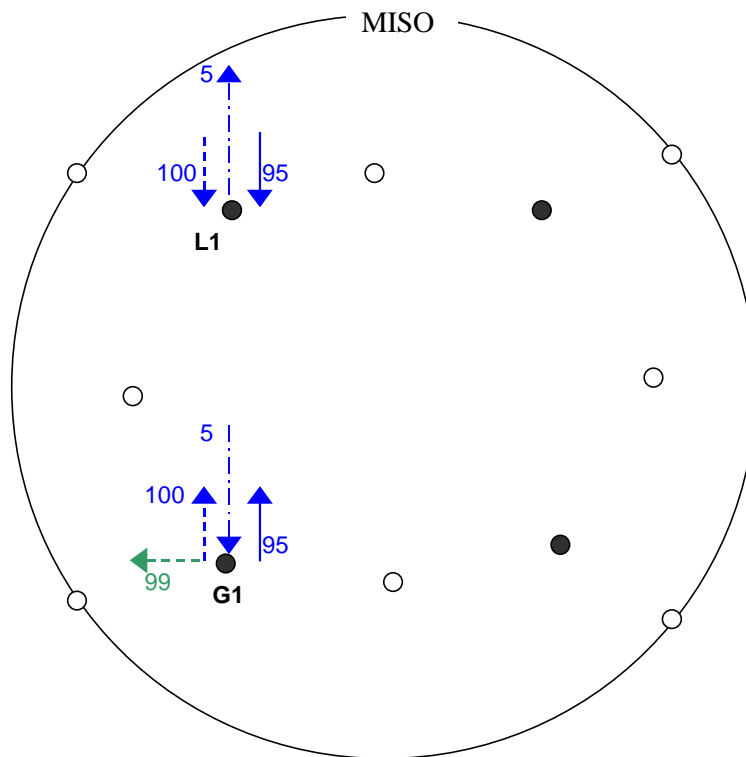
MISO will report two transactions: a RT -5 MW sale at G1 & a RT 5 MW sale at L1

Exhibit C- 20: RT 5 MW Sale at L1



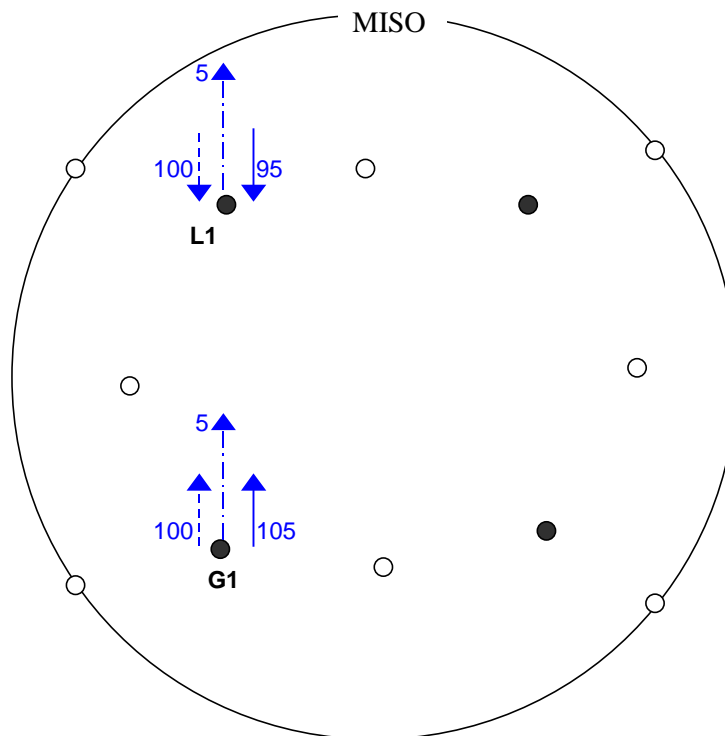
MISO will report one transaction: a RT 5 MW sale at L1

Exhibit C- 21: RT -5 MW Sale at G1 & 5 MW Sale at L1



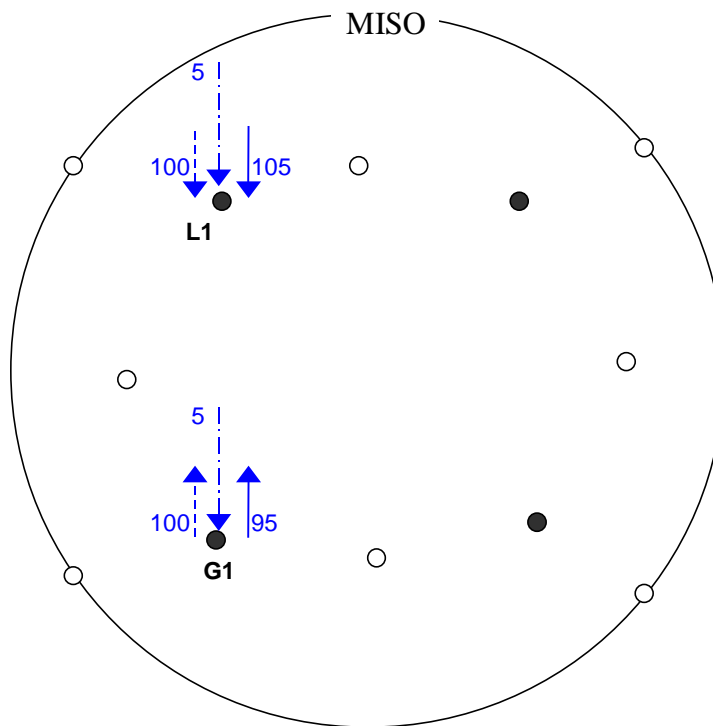
MISO will report two transactions: a RT-5 MW sale at G1 & a RT 5 MW sale at L1

Exhibit C- 22: RT 5 MW Sale at G1 & 5 MW Sale at L1



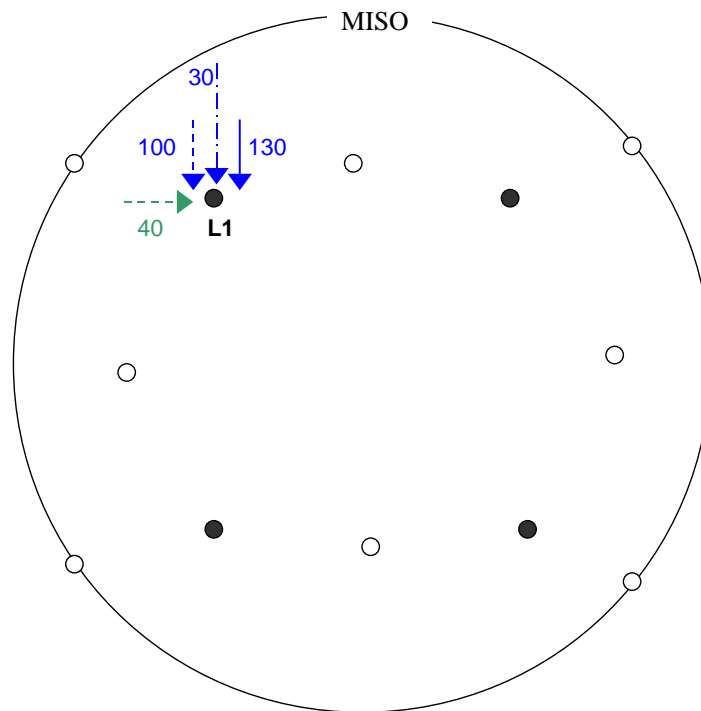
MISO will report two transactions: a RT 5 MW sale at G1 & a RT 5 MW sale at L1

Exhibit C- 23: RT -5 MW Sale at G1



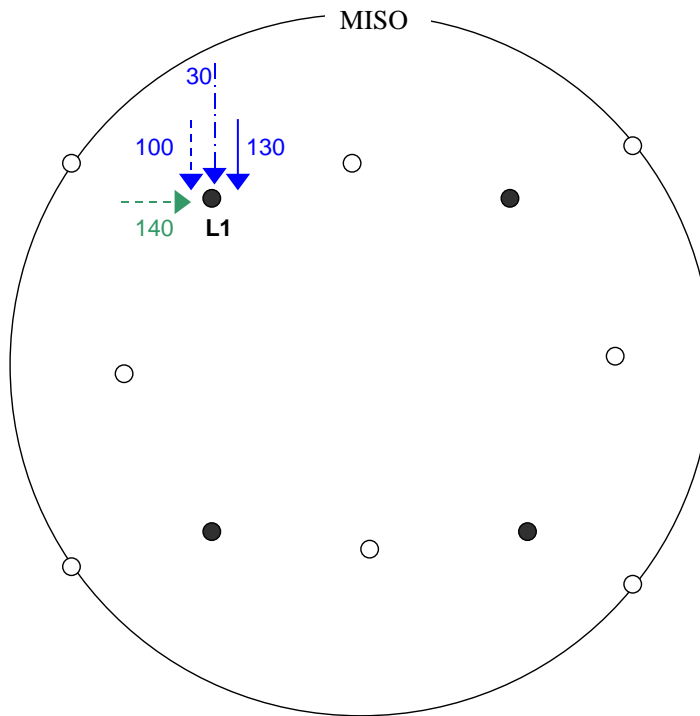
MISO will report one transaction: a RT -5 MW sale at G1

Exhibit C- 24: No RT Transactions Reported Scenario #2



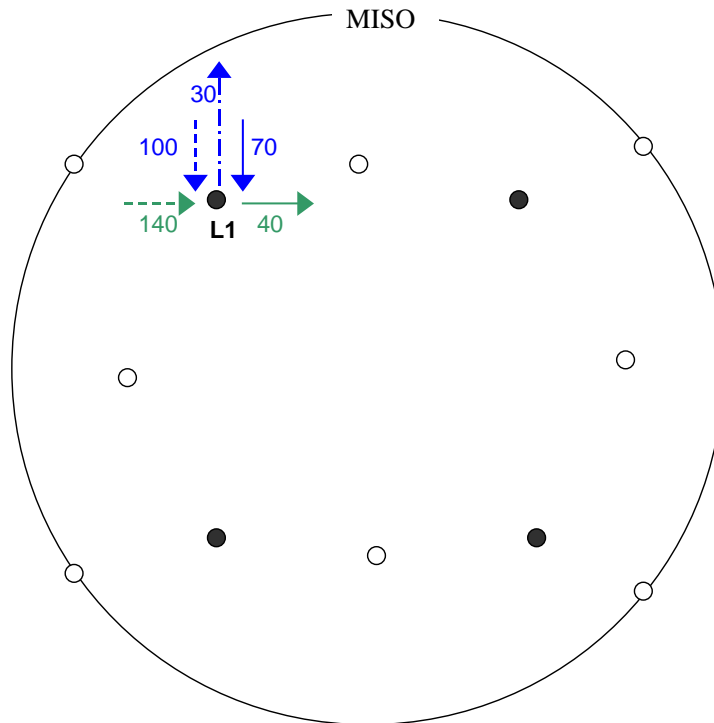
MISO will not report any transactions

Exhibit C- 25: RT -30 MW Sale at L1



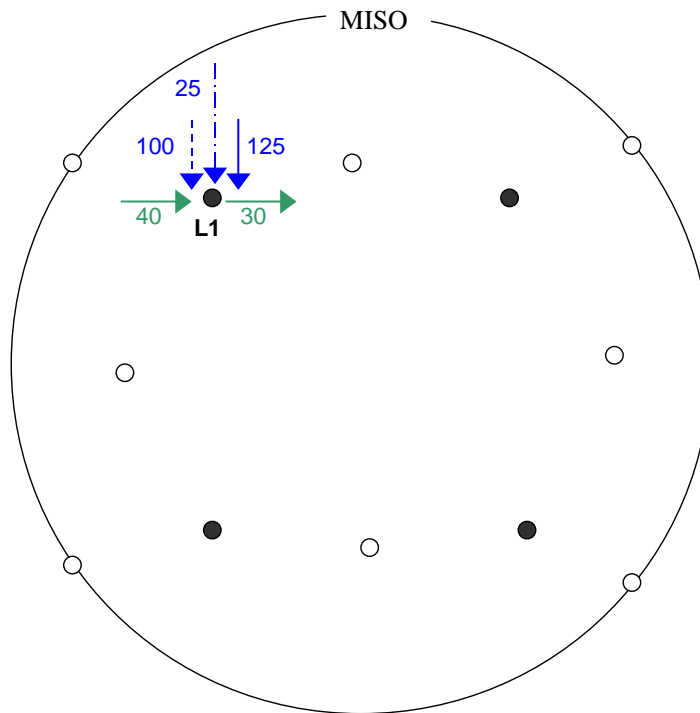
MISO will report one transactions: a RT -30 MW sale at L1

Exhibit C- 26: RT -10 MW Sale at L1



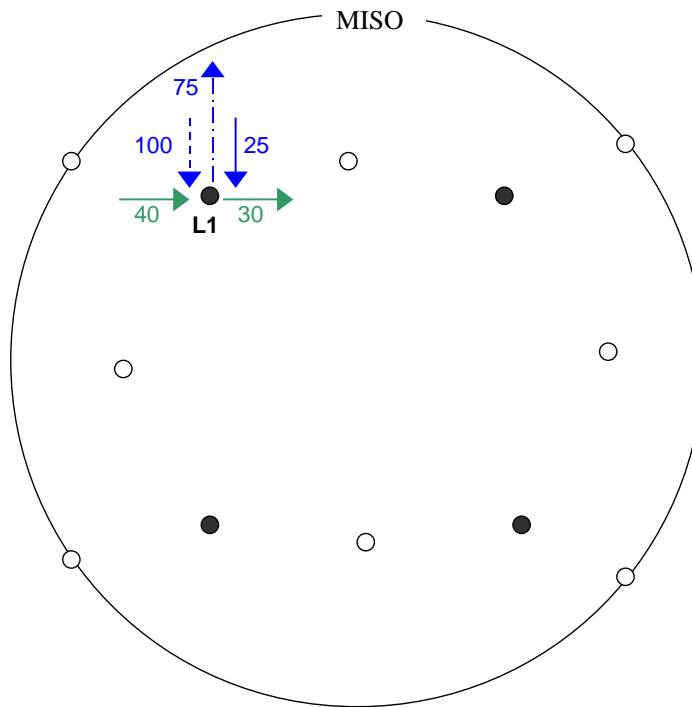
MISO will report one transaction: a RT -10 MW sale at L1

Exhibit C- 27: No RT Transactions Reported Scenario #3



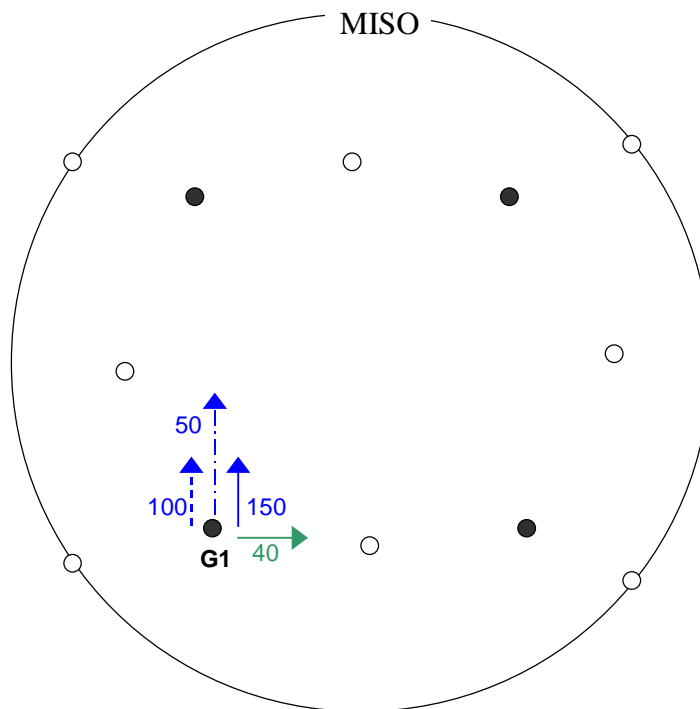
MISO will not report any transactions

Exhibit C- 28: RT 85 MW Sale at L1



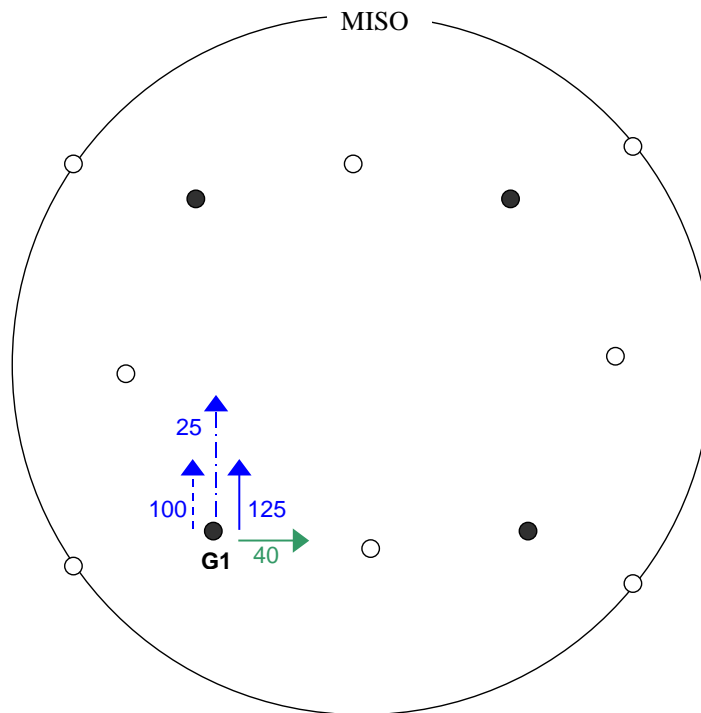
MISO will report one transaction: a RT 85 MW sale at L1

Exhibit C- 29: RT 10 MW Sale at G1



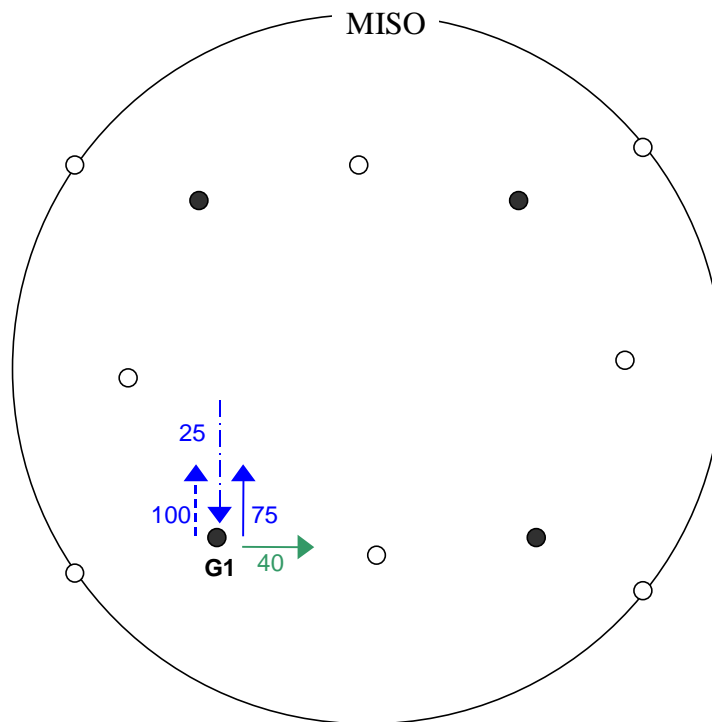
MISO will report one transaction: a RT 10 MW sale

Exhibit C- 30: RT -15 Sale at G1



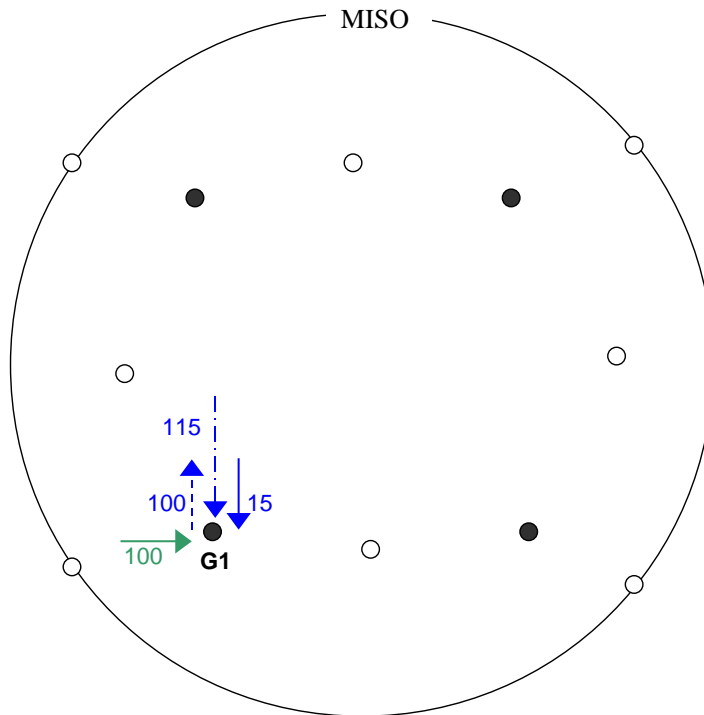
MISO will report one transaction: a RT -15 sale at G1

Exhibit C- 31: RT -65 Sale at G1



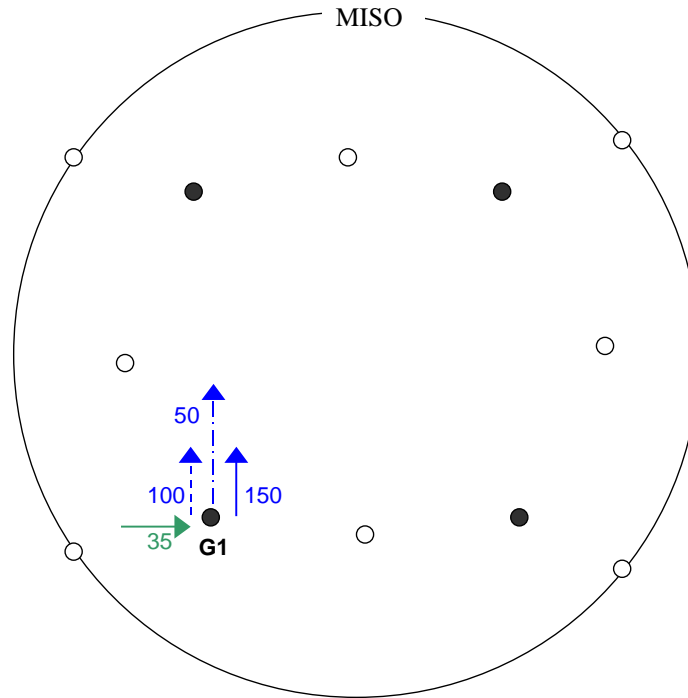
MISO will report one transaction: a RT -65 MW sale at G1

Exhibit C- 32: RT -15 Sale at G1



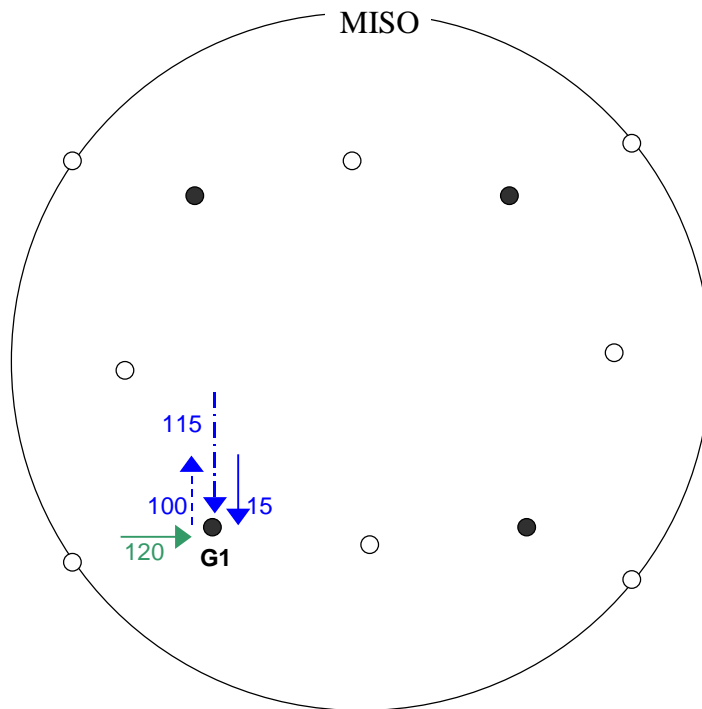
MISO will report one transaction: a RT -15 sale at G1

Exhibit C- 33: RT 85 MW Sale at G1



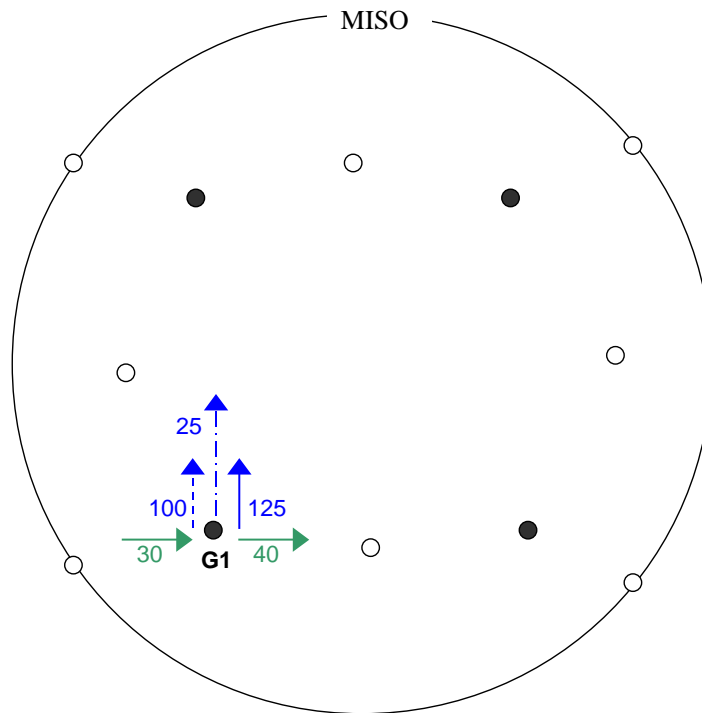
MISO will report one transaction: a RT 85 MW sale at G1

Exhibit C- 34: RT 5 MW Sale at G1



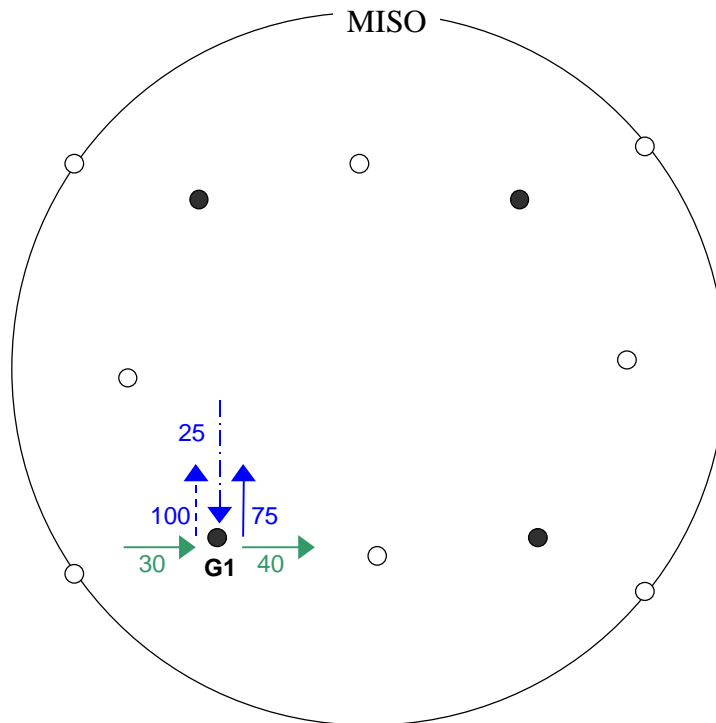
MISO will report one transaction: a RT 5 MW sale

Exhibit C- 35: RT 15 MW Sale at G1



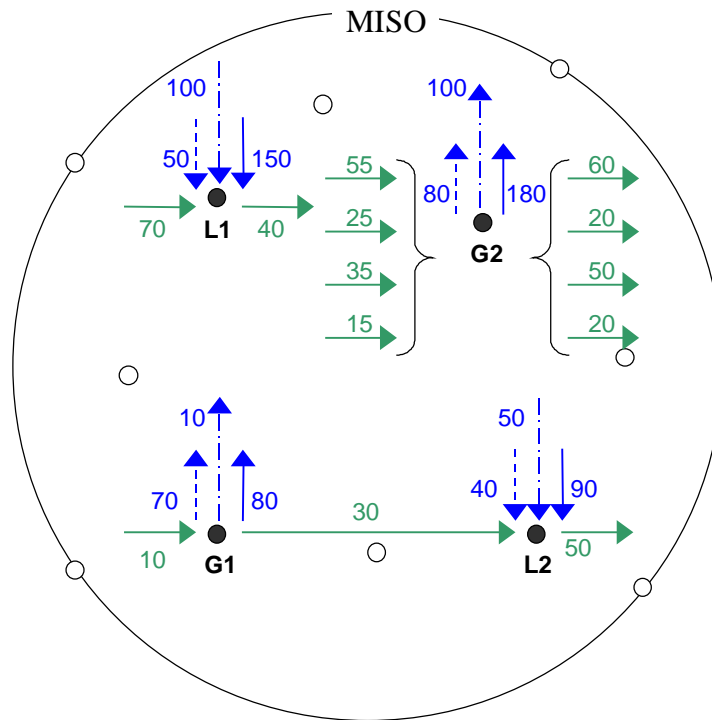
MISO will report one transaction: a RT 15 MW sale at G1

Exhibit C- 36: RT -35 MW Sale at G1



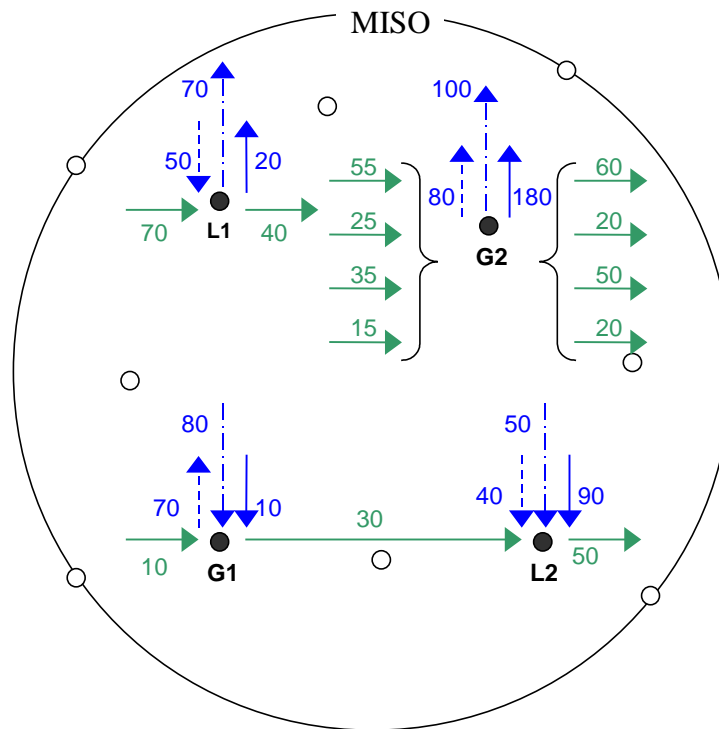
MISO will report the transaction: a -35 MW sale at G1

Exhibit C- 37: RT 80 MW Sale at G2



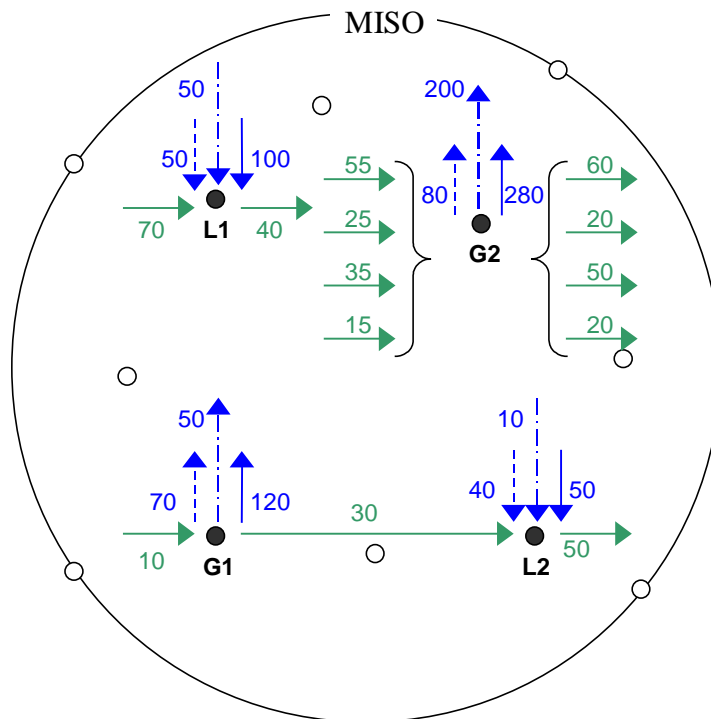
MISO will report one transaction: a RT 80 MW sale at G2

Exhibit C- 38: RT -100 MW Sale at G1 & RT 100 MW Sale at L1 & RT 80 MW Sale at G2



MISO will report three transactions:
a RT -100 MW sale at G1
a RT 100 MW sale at L1
a RT 80 MW sale at G2

Exhibit C- 39: RT 30 MW Sale at G1 & RT 180 MW Sale at G2

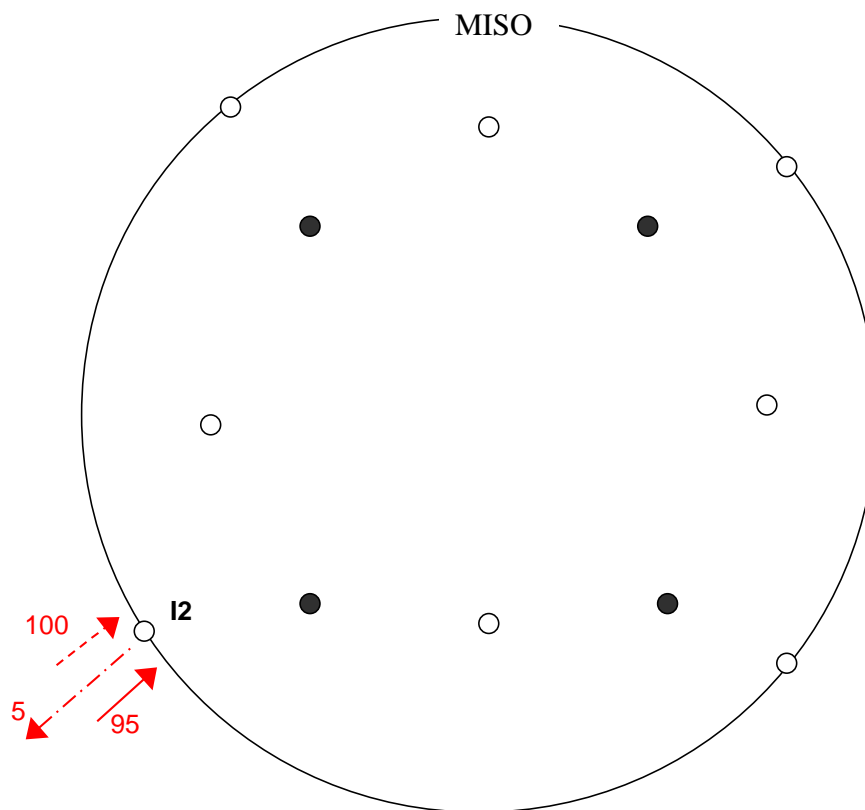


MISO will report two transactions:
 a RT 30 MW sale at G1
 a RT 180 MW sale at G2

C.1.5 Real-Time MW at an Interface

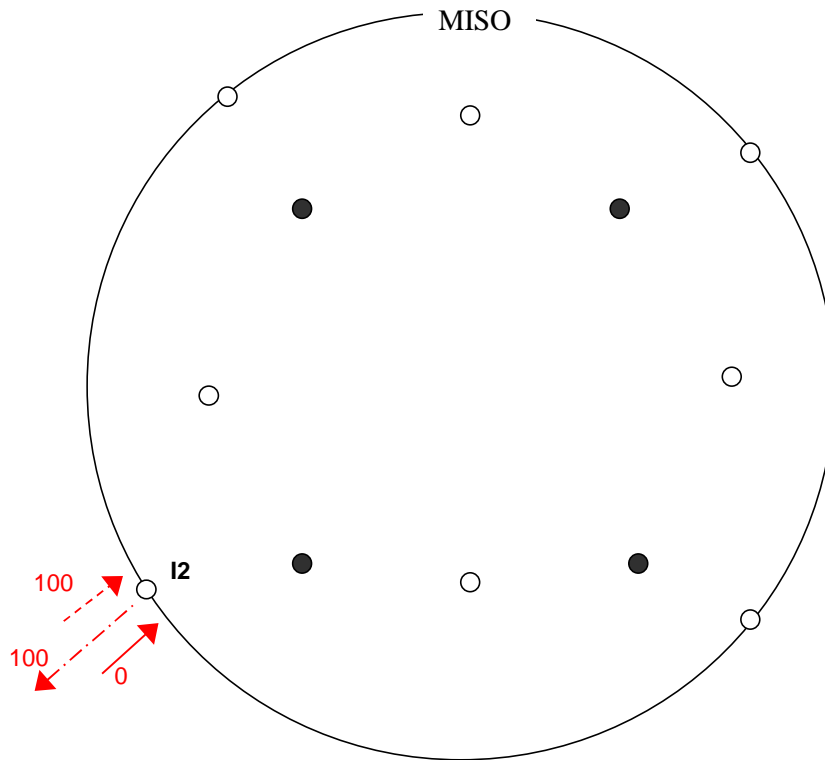
The following exhibits provide examples of MISO reporting scenarios for Real-Time MW at an Interface.

Exhibit C- 40: RT -5 MW Sale at I2



MISO will report one transaction: a RT -5 MW sale at I2

Exhibit C- 41: RT -100 MW Sale at I2



MISO will report one transaction: a RT-100 MW sale at I2

Exhibit C- 42: RT -10 MW Sale at I2

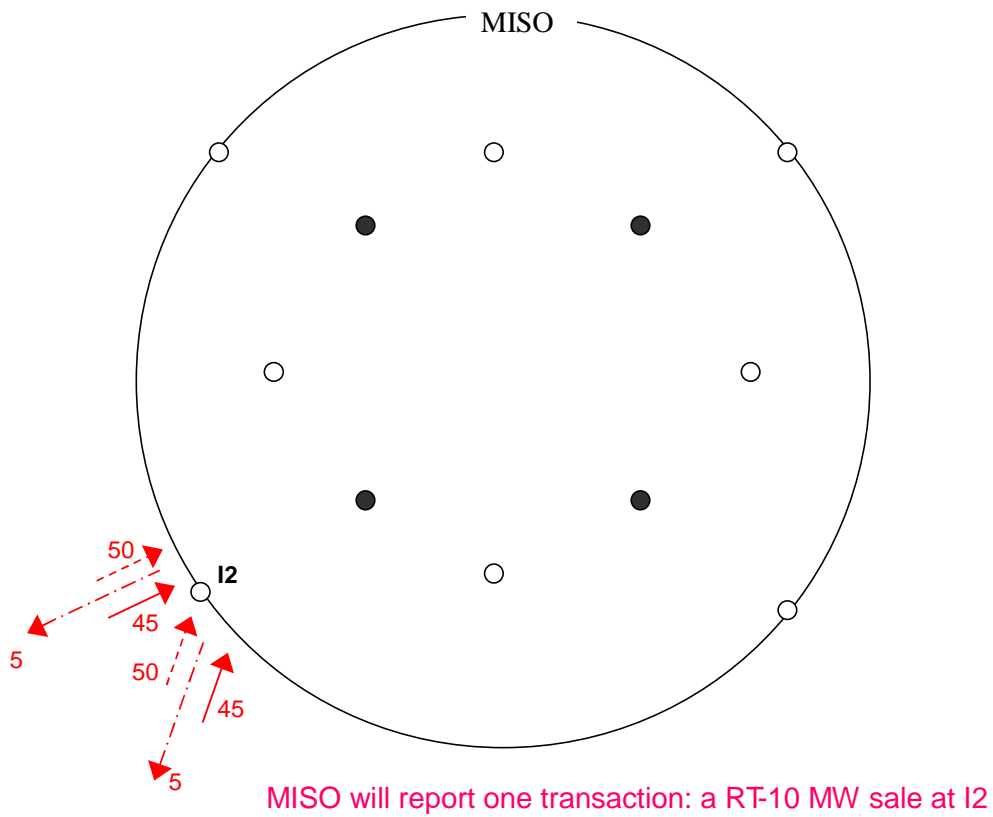
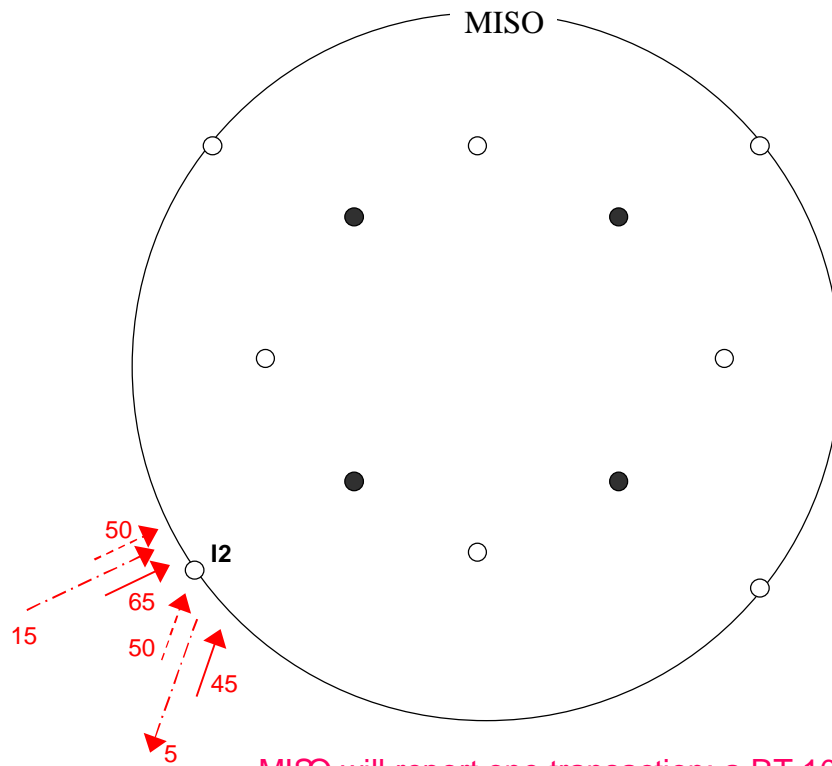


Exhibit C- 43: RT 10 MW Sale at I2



MISO will report one transaction: a RT 10 MW sale at I2

Exhibit C- 44: RT 20 MW Sale at I2

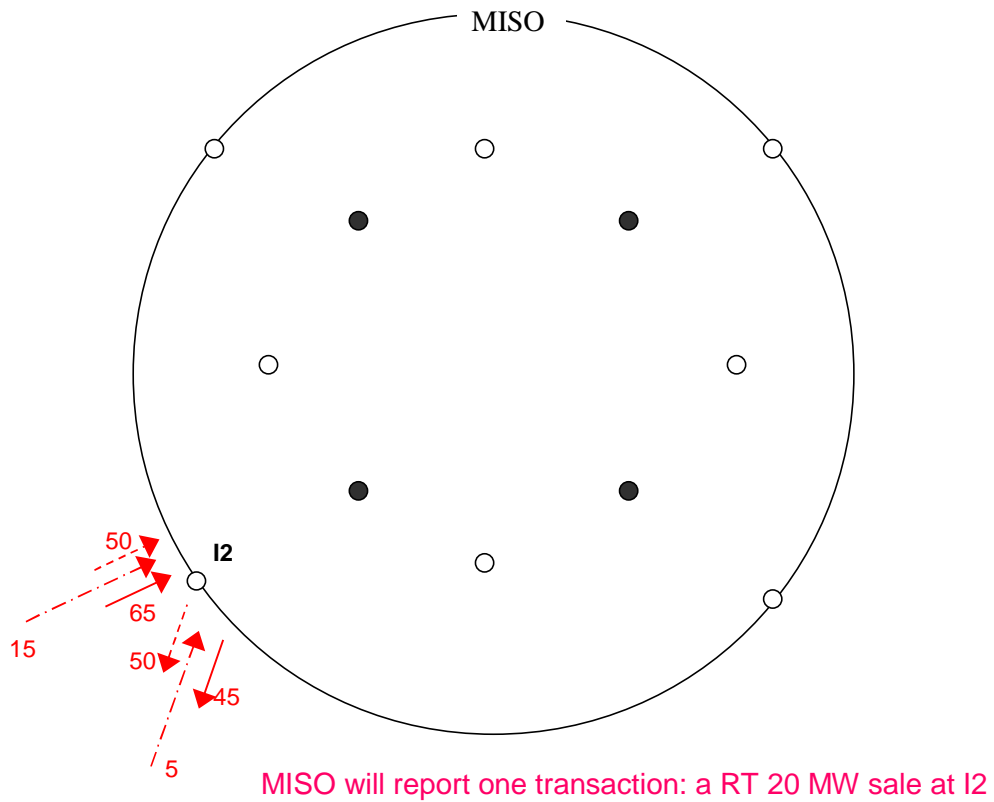


Exhibit C- 45: No RT Transactions Reported #1

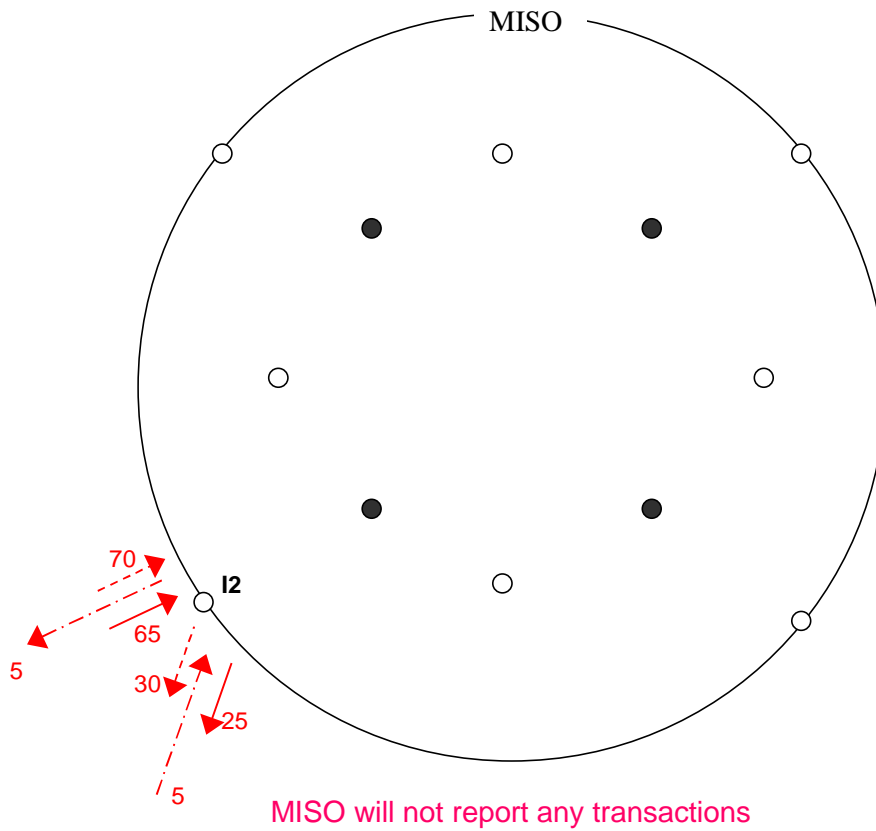


Exhibit C- 46: RT 20 MW Sale at I2

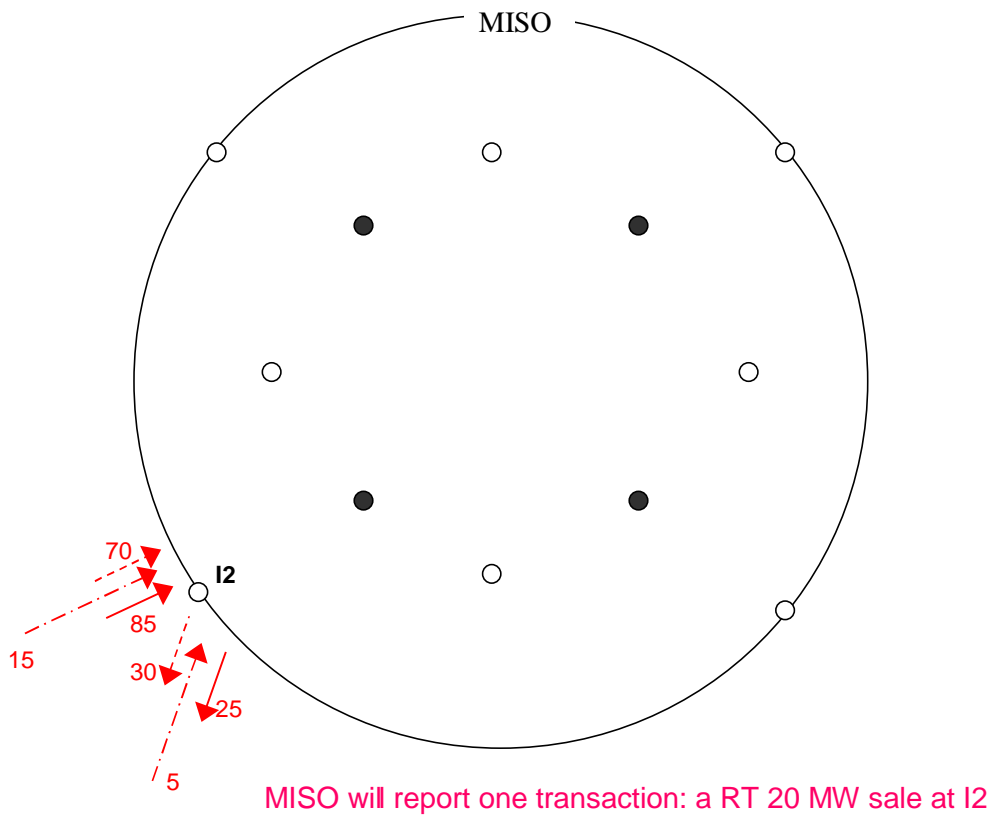
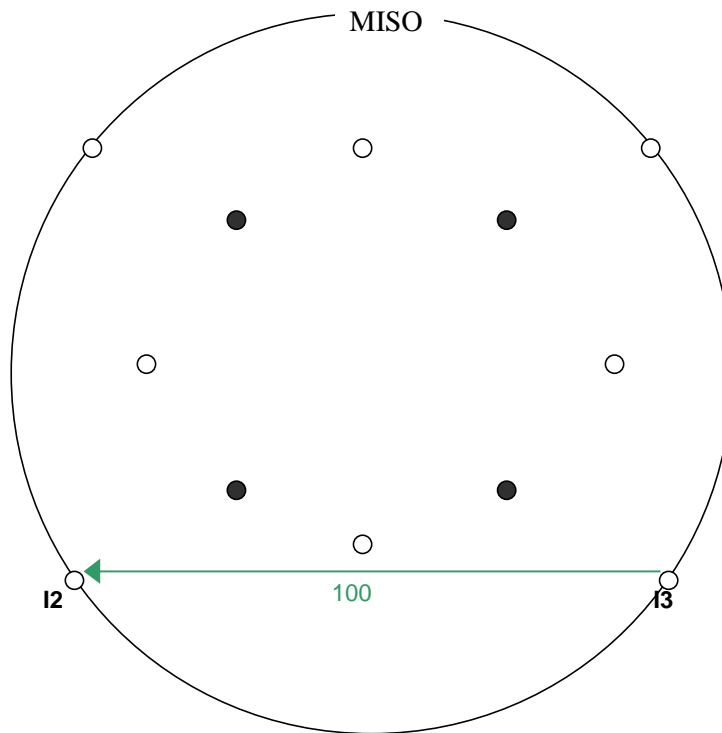
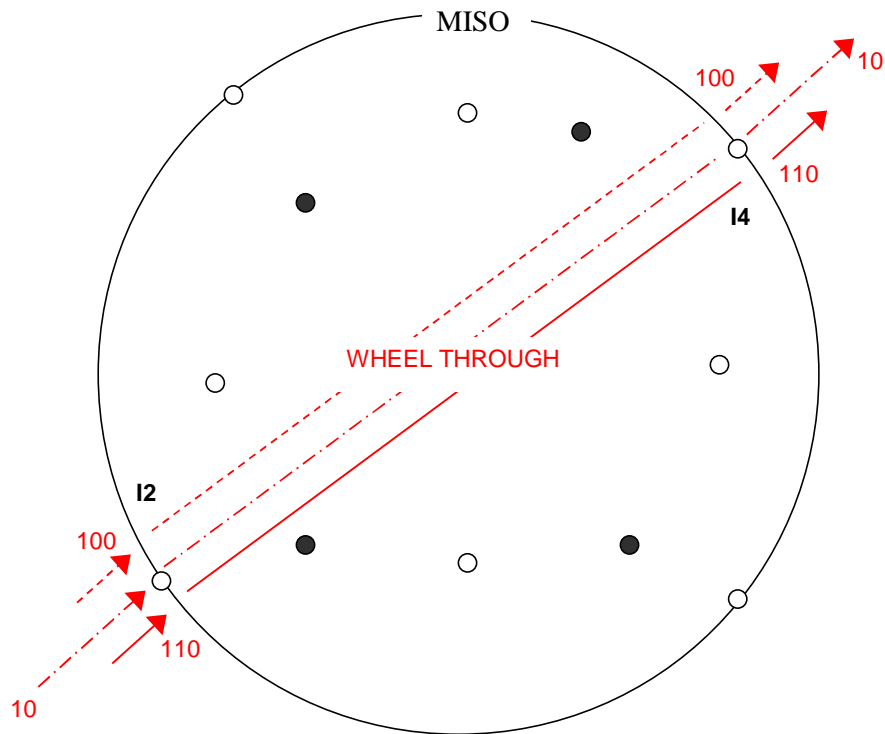


Exhibit C- 47: RT 100 MW Sale at I2



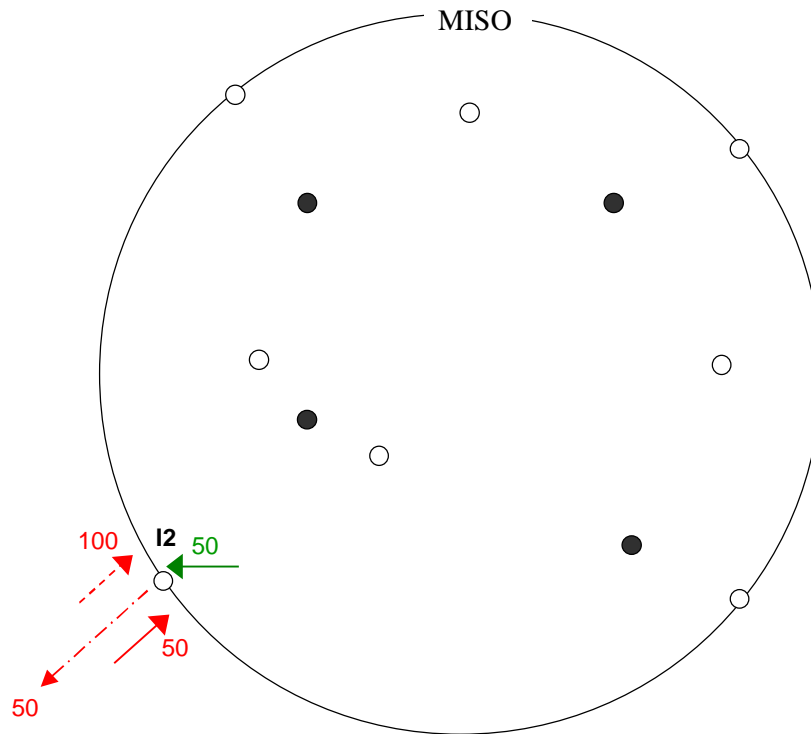
MISO will report one transaction: a RT 100 MW sale at I2

Exhibit C- 48: RT 10 MW Sale at I2



MISO will report one transaction: a RT 10 MW sale at I2

Exhibit C- 49: No RT Reportable Transactions #2



MISO will not report any transactions

Exhibit C- 50: RT -10 MW Sale at I2 & RT 10 MW Sale at I4

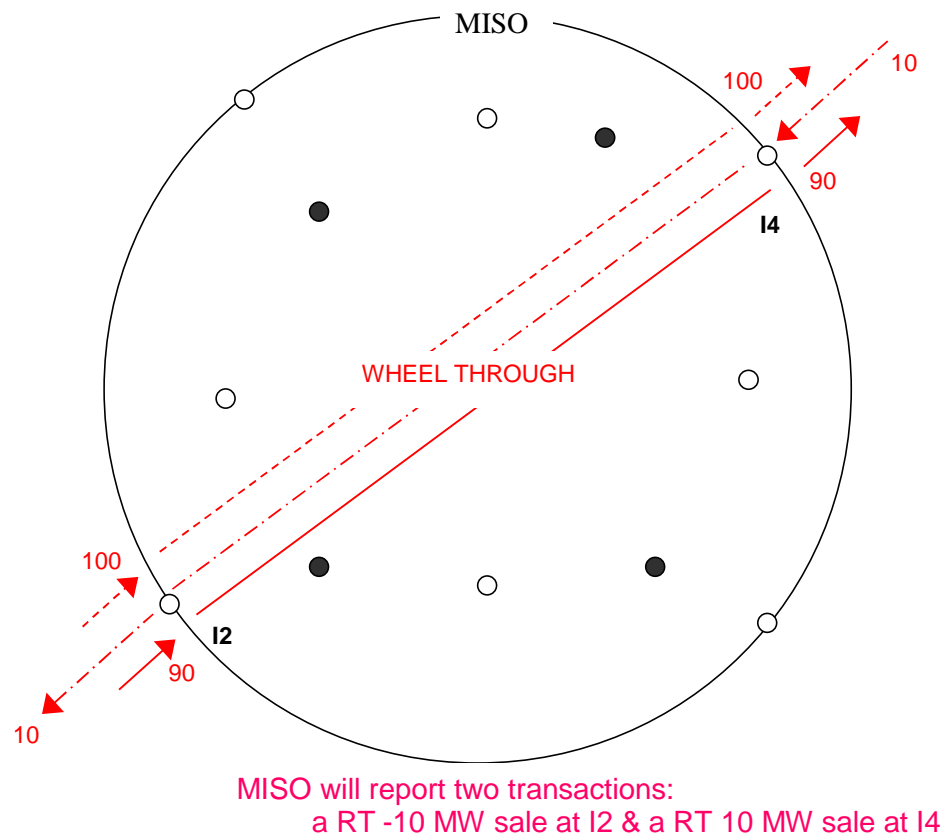
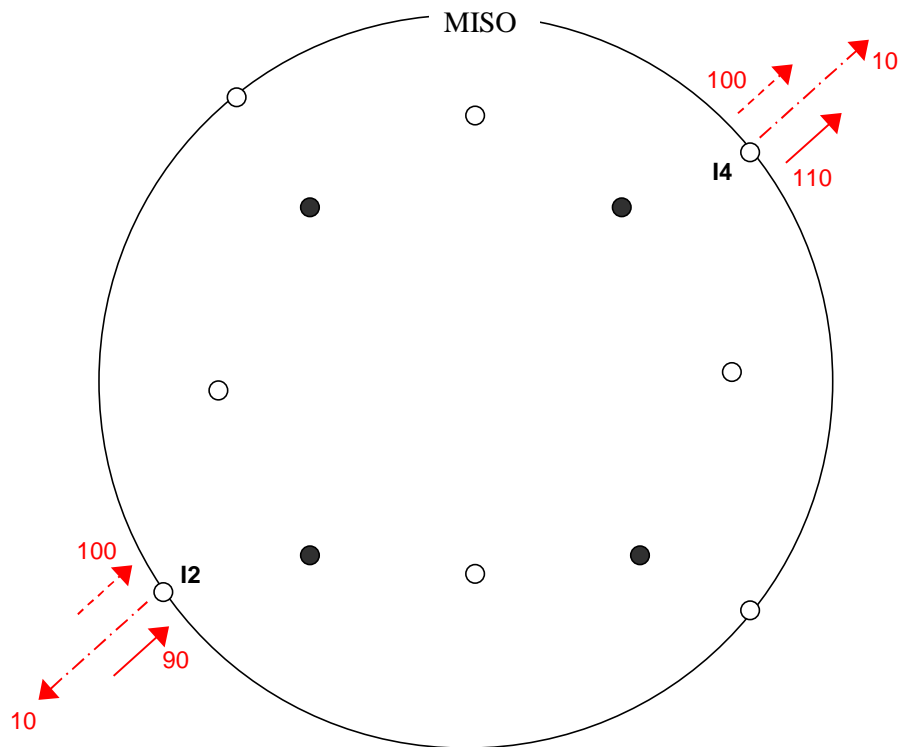
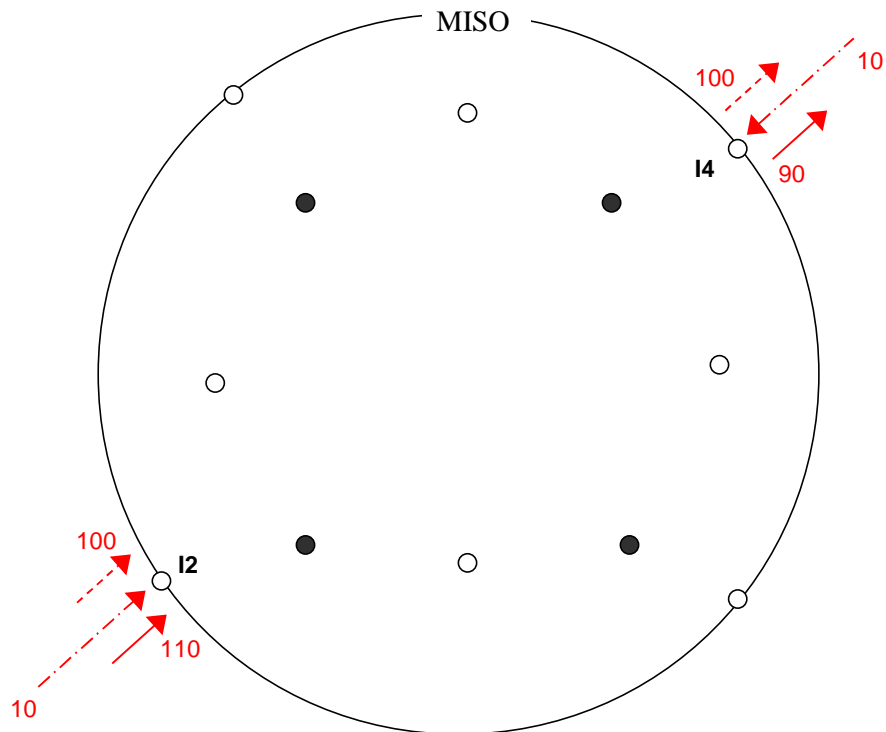


Exhibit C- 51: RT -10 MW Sale at I2



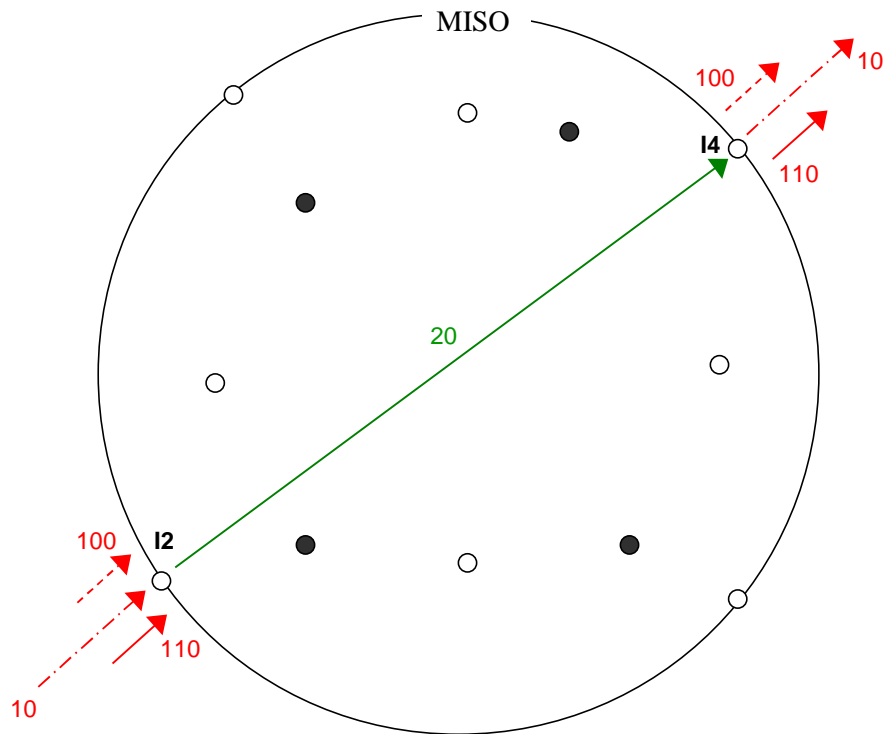
MISO will report one transaction: a RT-10 MW sale at I2

Exhibit C- 52: RT 10 MW Sale at I2 & RT 10 MW Sale at I4



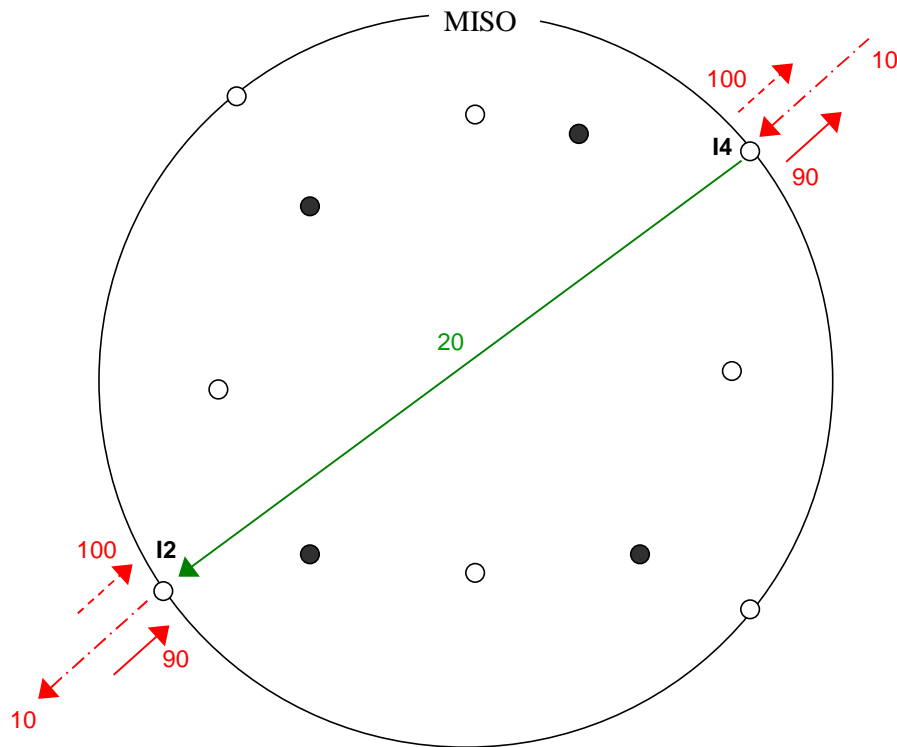
MISO will report two transactions:
a RT 10 MW sale at I2 & a RT 10 MW sale at I4

Exhibit C- 53: RT 10 MW Sale at I4



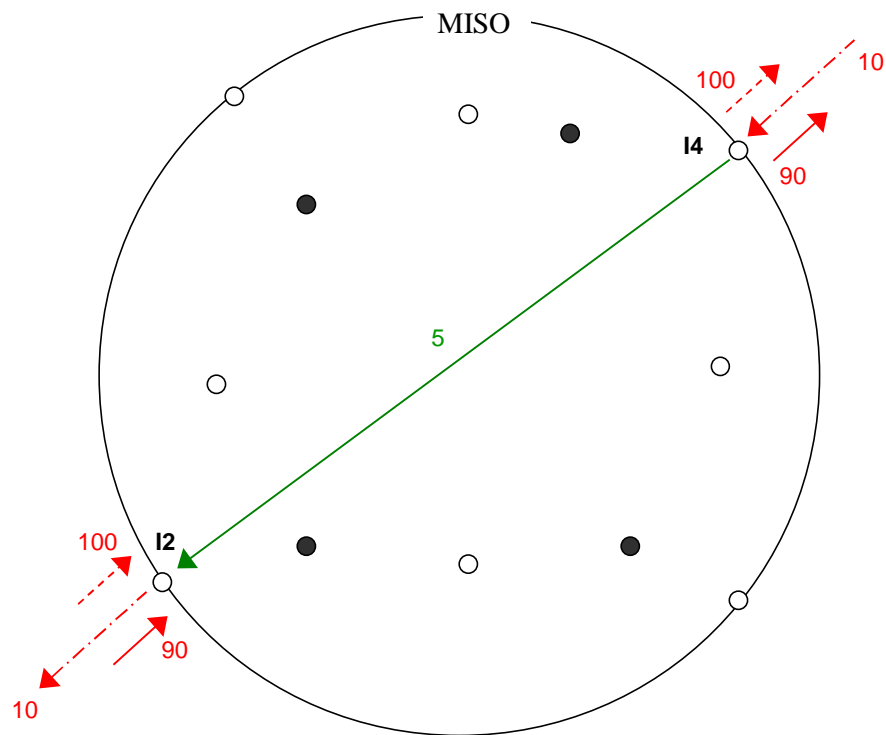
MISO will report one transaction: a RT 10 MW sale at I4

Exhibit C- 54: RT 10 MW Sale at I2



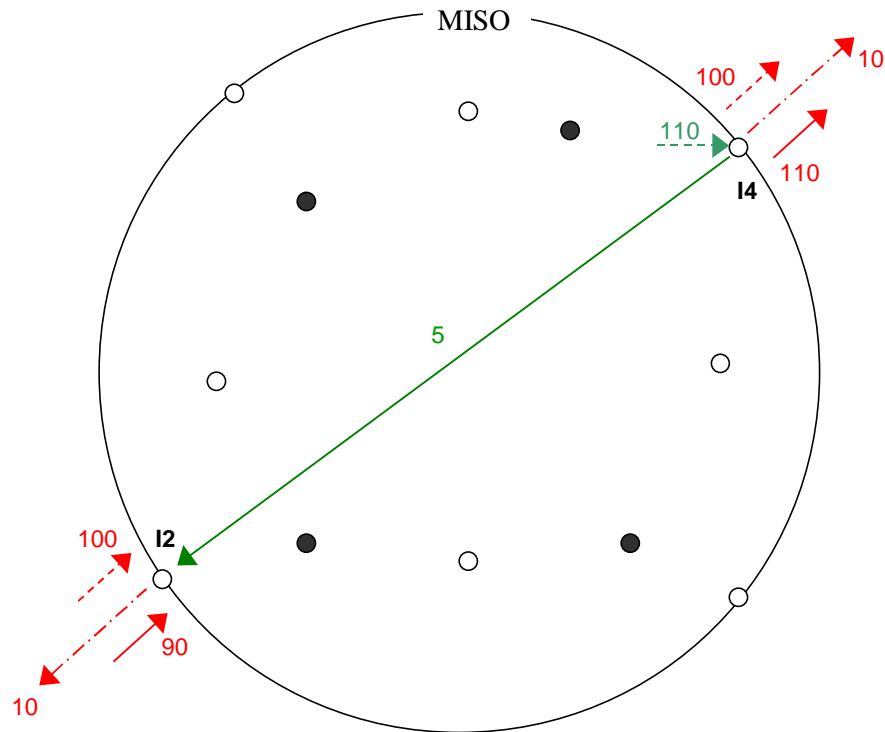
MISO will report one transaction: a RT 10 MW sale at I2

Exhibit C- 55: RT -5 MW Sale at I2 & RT 5 MW Sale at I4



MISO will report two transactions:
a RT -5 MW sale at I2 & a RT 5 MW sale at I4

Exhibit C- 56: RT -5 MW Sale at I2 & a RT -15 MW Sale at I4



MISO will report two transactions:
a RT -5 MW sale at I2 & a RT-15 MW sale at I4

Exhibit C- 57: No RT Transactions Reported #3

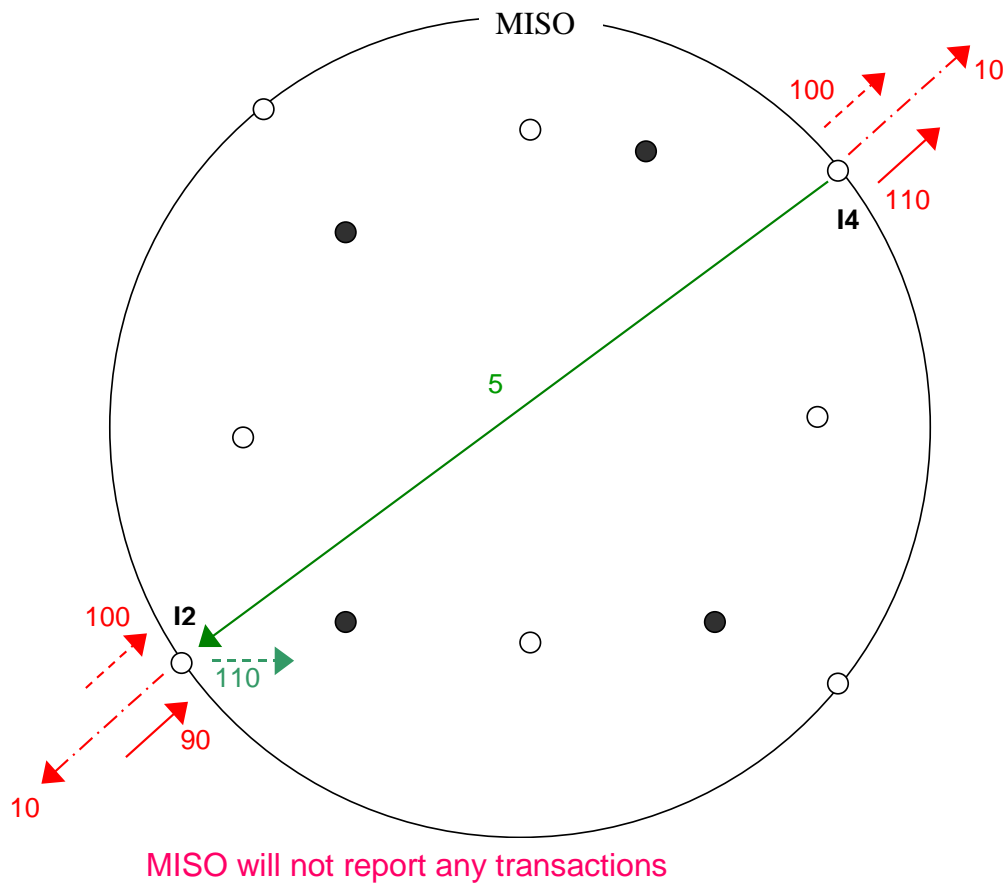
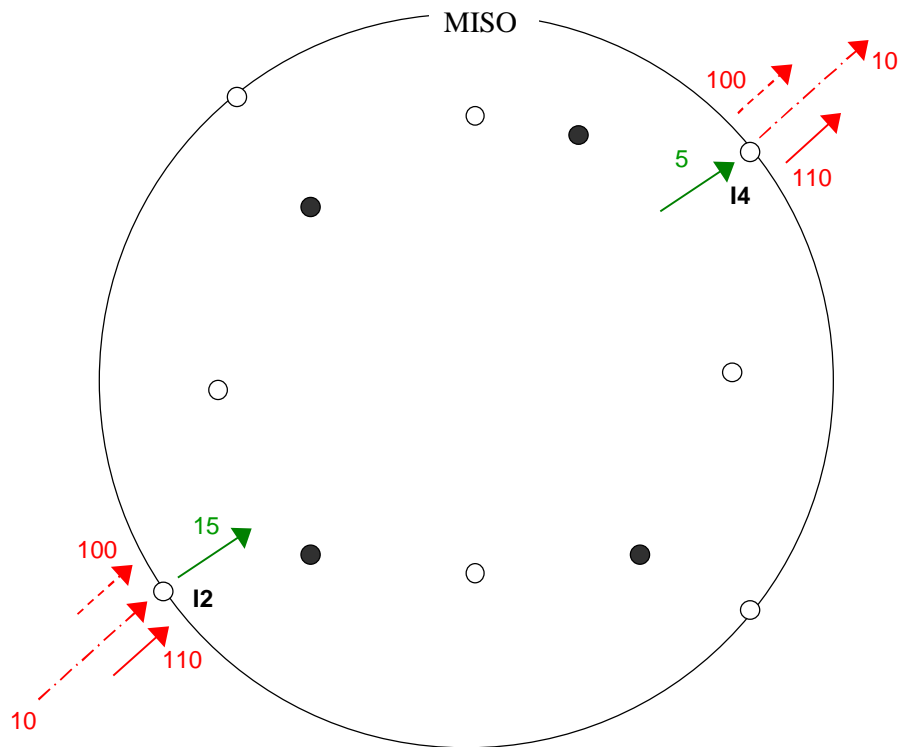
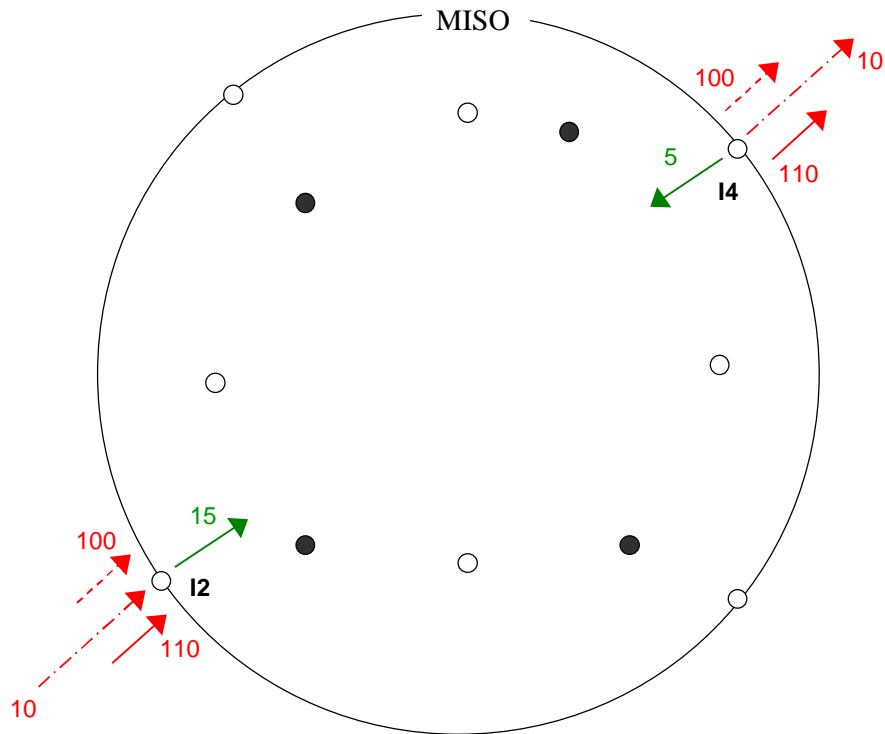


Exhibit C- 58: RT -5 MW Sale at I2, Scenario #1



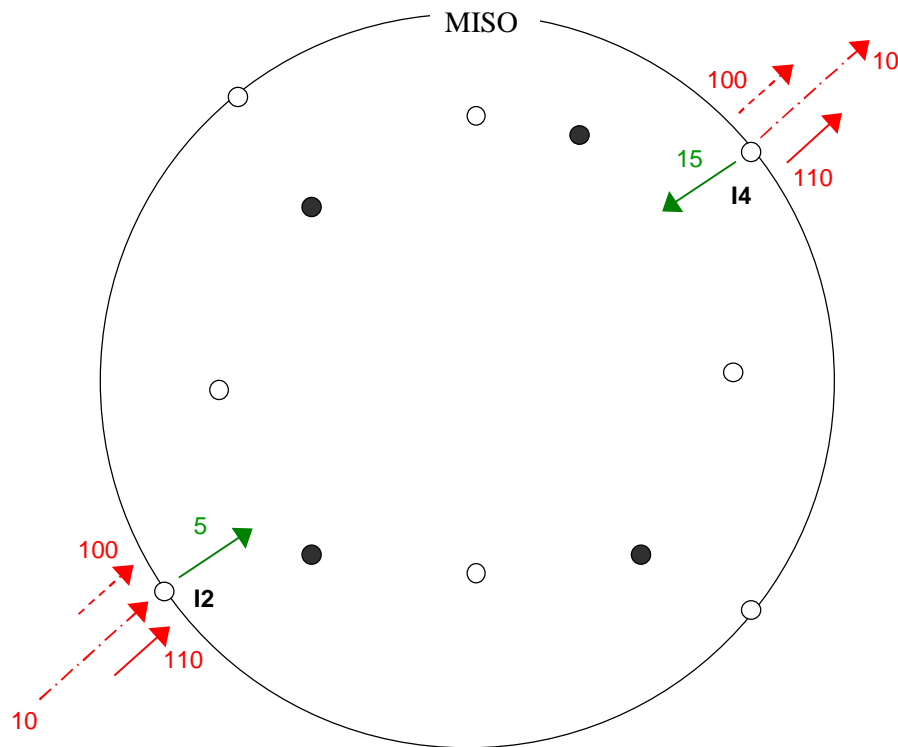
MISO will report one transaction: a RT-5 MW sale at I2

Exhibit C- 59: RT -5 MW Sale at I2, Scenario #2



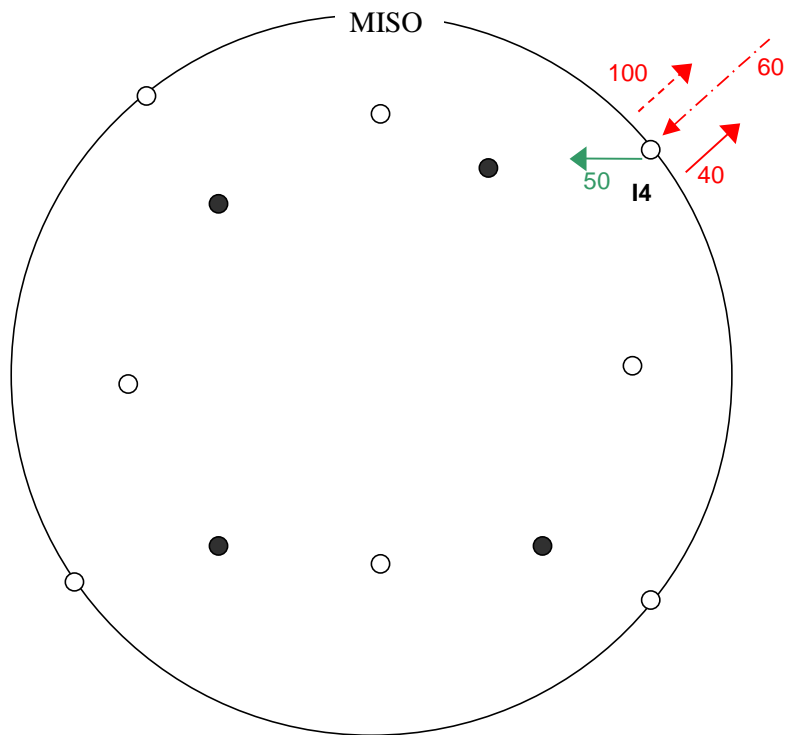
MISO will report one transaction: a RT -5 MW sale at I2

Exhibit C- 60: RT 5 MW Sale at I2



MISO will report one transaction: a RT 5 MW sale at I2

Exhibit C- 61: RT 10 MW Sale at I4



MISO will report one transaction: a RT 10 MW sale at I4

Exhibit C- 62: RT 80 MW Sale at I1 & RT -85 MW Sale at I2

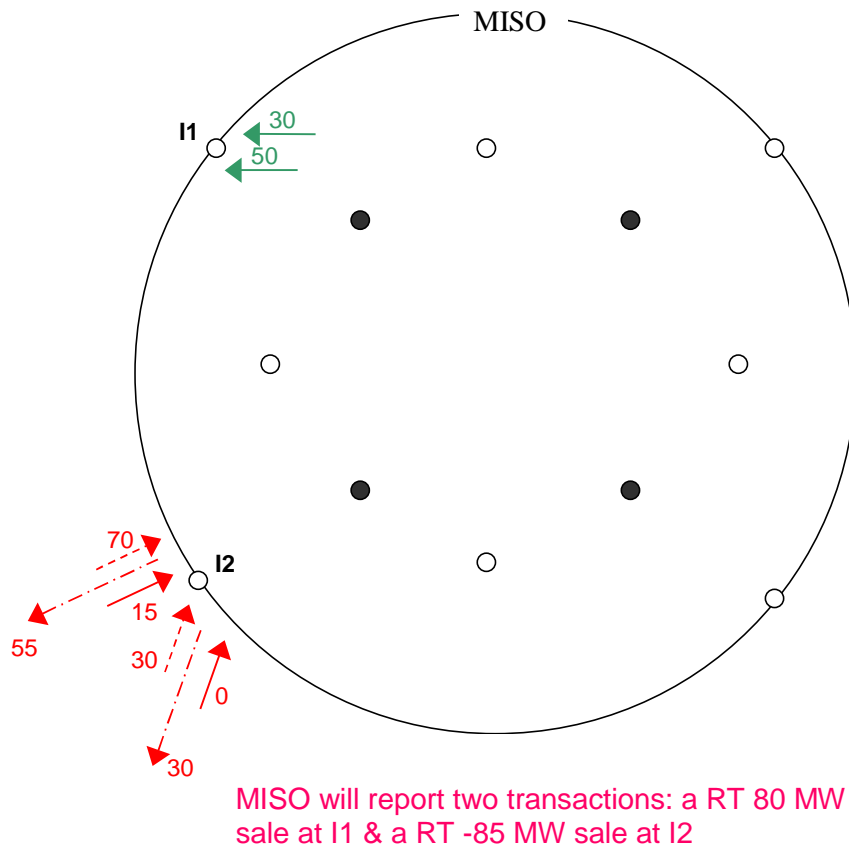


Exhibit C- 63: RT -40 MW Sale at I2

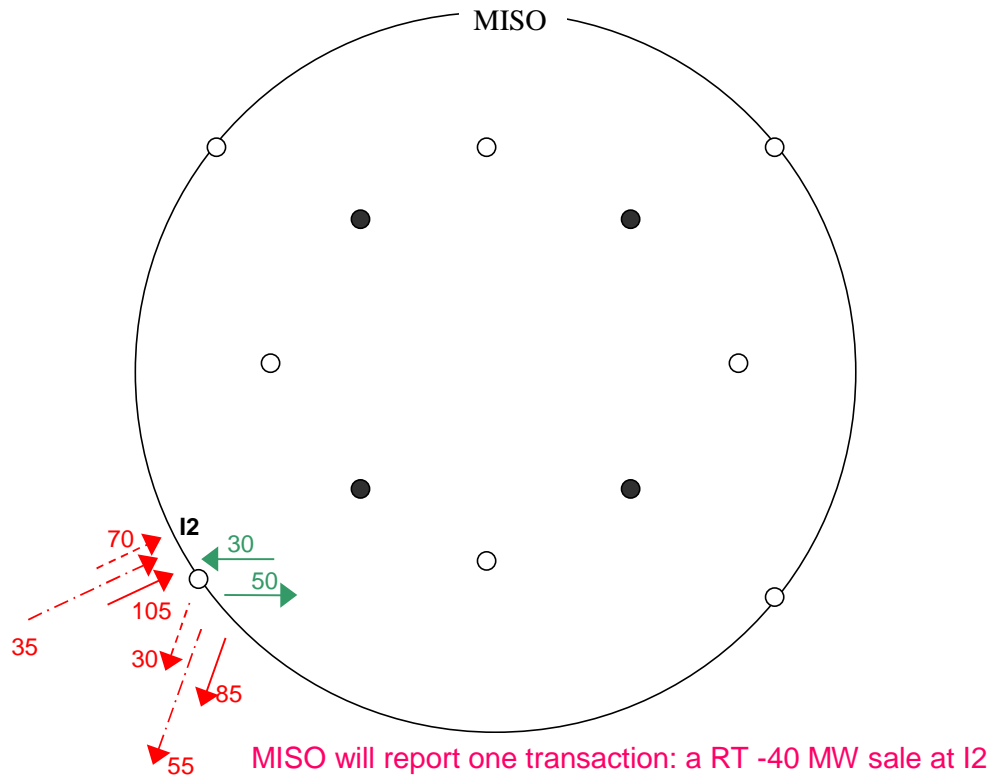
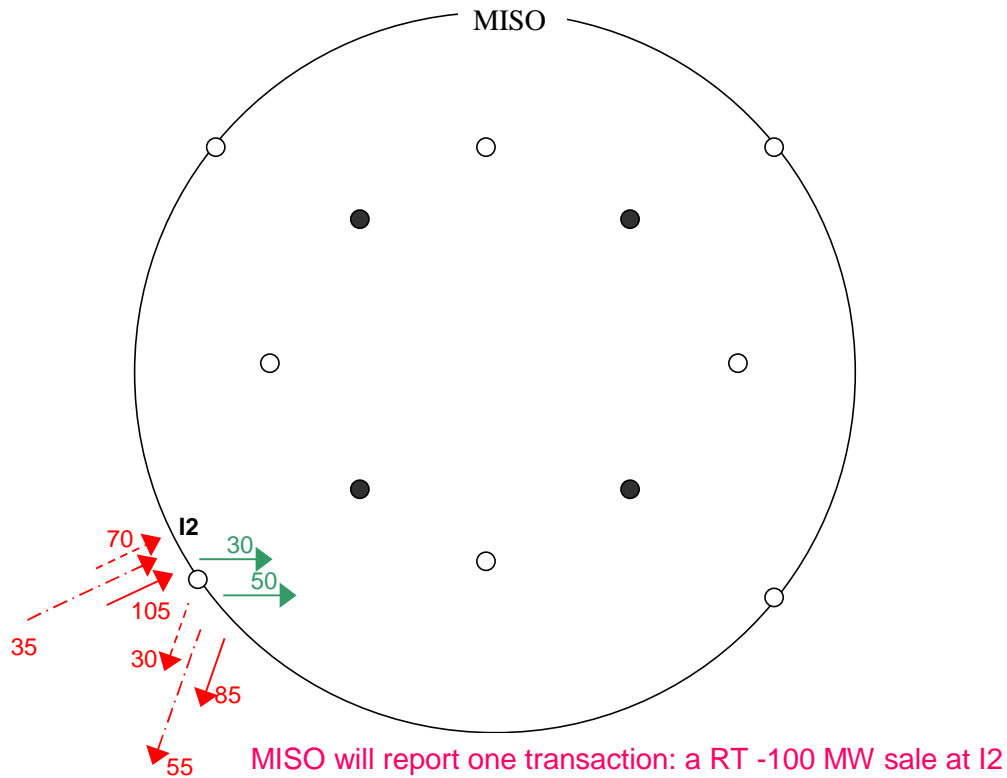
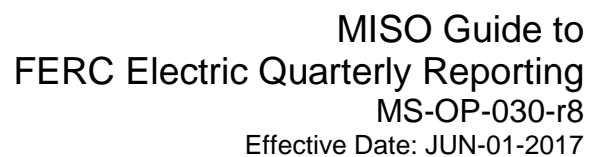


Exhibit C- 64: RT -100 MW Sale at I2





MISO

I2

70

105

35

30

85

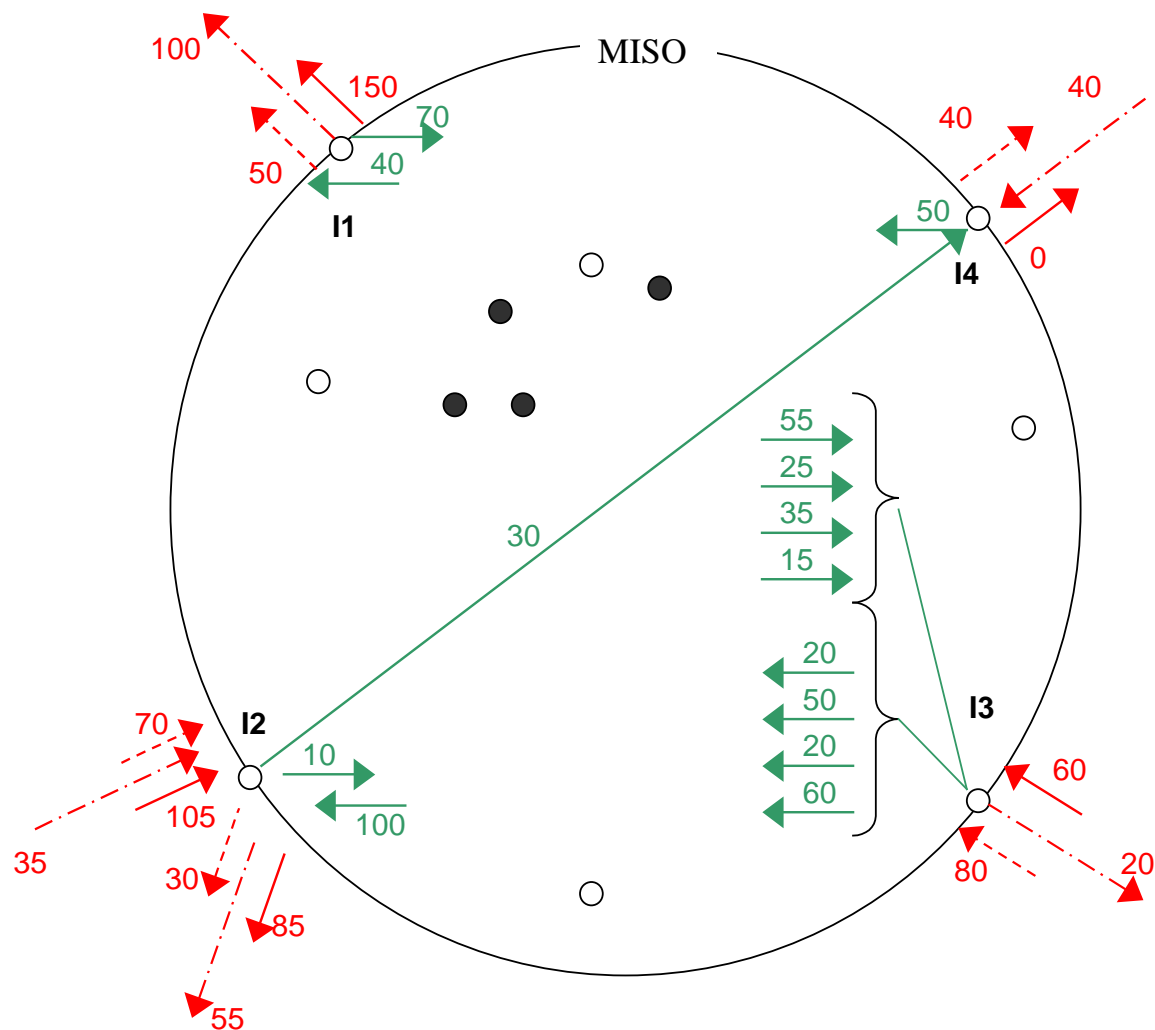
55

30

50

MISO will report one transaction: a RT 60 MW sale at I2

Exhibit C- 66: RT 40 MW Sale at I2 & RT -40 MW Sale at I3 & RT 20 MW Sale at I4

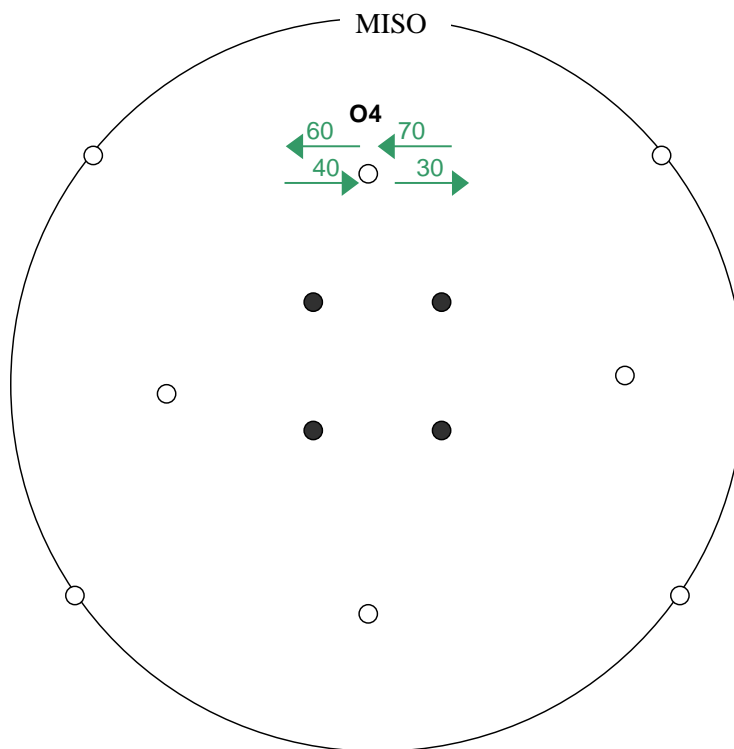


MISO will report three transactions:
a RT 40 MW sale at I2
a RT -40 MW sale at I3
a RT 20 MW sale at I4

C.1.6 Real-Time MW at a common Commercial Pricing Node

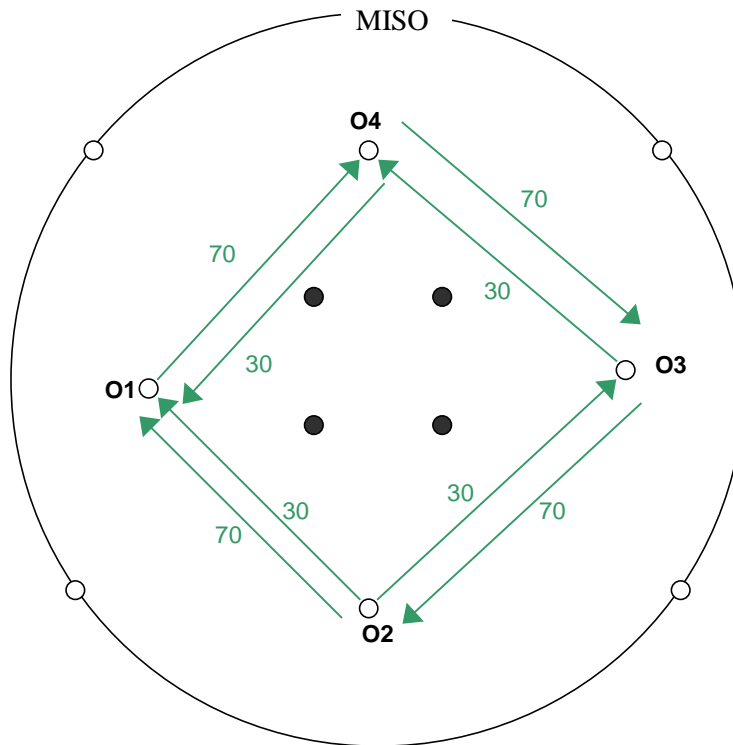
The following exhibits provide examples of MISO reporting scenarios for Real-Time MW at a common CPNode.

Exhibit C- 67: RT 20 MW Sale at O4



MISO will report one transaction: a RT 20 MW sale at O4

Exhibit C- 68: RT 60 MW Sale at O1



MISO will report one transaction: a RT 60 MW sale at O1



D References

None

E Disclaimer

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**MISO Guide to
FERC Electric Quarterly Reporting
MS-OP-030-r8
Effective Date: JUN-01-2017**

F Revision History

Doc Number	Description	Revised by:	Effective Date
MS-OP-030-r8	Annual Review completed. No additional updates necessary.	E. Fjellman	JUN-01-2017
MS-OP-030-r7	Annual Review completed. No additional updates necessary.	E. Fjellman	JUN-01-2016
MS-OP-030-r6	Annual Review completed. No additional updates necessary.	E. Fjellman	MAR-31-2015
MS-OP-030-r5	Annual Review completed. No additional updates necessary.	O. Kacmar	MAR-31-2014
MS-OP-030-r4	Annual review completed. <ul style="list-style-type: none">No content changesUpdated exhibit numbers Due to manual error in revision numbering 'a', 'b', and 'c' were added to distinguish versions of revision 2.	B. Selear	MAR-01-2013
MS-OP-030-r3	Annual review completed. No content changes	B. Selear	JAN-12-2012
MS-OP-030-r2c	MISO rebranding changes	B. Selear	JAN-06-2010
MS-OP-030-r2b	Annual review completed 12/30/2010. No content changes. Format change to section C.1.6 title only.	E. Fjellman	JAN-06-2010
MS-OP-030-r2a	Annual Review. <ul style="list-style-type: none">Removed Issue Date column in Revision History per Controlled DocumentsChanged all BPM-MS-001 references to BPM-005 per Controlled Documents No additional updates necessary.	E. Fjellman	JAN-06-2010
MS-OP-030-r1	Add descriptions of reported EQR data types to Section C	D. Croy	JAN-06-2009
MS-OP-030	Establish separate Controlled Document instead of BPM Attachment B; Update for ASM	R. Terry	JAN-06-2009