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| O.O. | **18-03186-OO****18-03268-OO** | MISO No. | **1-17094088****1-17094343** | File No. | 240802 |
| **Name of Outage:** | 230 kV Line R29H (Reston South – Virden West) ***and,*** 115 kV Line MR11 (Raven Lake Terminal) |
| **Effective Dates:** | 2018-03-21 from 0700 to 1800 CDT (2018-03-21 from 0700 to 1800 EST) |
| **Standing Guide Reference:** | MH-SPC Special Study (as per R. Arruda 2018-03-13) |

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| **System****Posturing** | B10T will be operated within the range of "Scheduled / SOL" 150 / 165 MW South and "Scheduled / SOL" 75 / 90 MW North.**West Flow****“GRAPH” MAXIMUM of 900 MW** was studied for this outage for west flow conditions. Monitor Graph by using the “GRAPH LIMIT” calculation. **“GRAPH” MINIMUM of 0 MW**. Maximum **"PH" of 500 MW**. Use "ARC Constant" value of **575 MW**, for "GRAPH LIMIT" monitoring.**East Flow****“GRAPH” MAXIMUM of 900 MW** was studied for this outage for east flow conditions. Monitor Graph by using the “GRAPH LIMIT” calculation. **“GRAPH” MINIMUM of 0 MW**. Maximum **"PH" of 500 MW**. Use "ARC Constant" value of **575 MW**, for "GRAPH LIMIT" monitoring.Note: **“GRAPH”** = sum of **Grand Rapids** and Power to **Ponton and Herblet Lake** (This acronym replaces previous “GRPTPH” which had the same parameter value )Note: **“ARC”** = sum of **U91A and A4D “OUT**” at **Ashern** plus **MR11 “OUT”** at **Raven Lake** plus **C28R “IN”** at **Cornwallis**.Note: **“PH”** - sum of Power to **Ponton and Herblet Lake** from lines P19W, J30P, W73H and W74H. (N.B: This acronym replaces previous “PTPH” which had the same parameter value). |
| **Description****of Work:** | R29H – Structure replacements.MR11 – System posturing during R29H as per operating procedure NOP-1102-06. |



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| **Special Notes to MISO North RC** |  |

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| **Special Instructions to MHEB Operator:** |   |

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| **Special Instructions**  | **TOI Extensions** - This TOI may be extended until 23:59 by performing the following steps:1. 1. Verify system conditions to confirm there are no additional tie line facilities outages, or new internal MH outages.
2. 2. Review RTCA to confirm there are no new contingencies.
3. 3. Contact MISO to confirm there are no new outages, if there are no new outages provide notice to MISO that MH is extending the TOI.
4. 4. Extend the outage in COLA.
5. 5. Update TLAP outage table.

6. Provide notice to affected balancing authorities. |

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| **Prepared By:** | D. Williams | **Date:** | **2018.03.13** |

Copies to:

 SPSO, System Control Centre NSSS, System Control Centre

 GSSS, System Control Centre GSO, System Control Centre

 Operating Order File 240802

 MHEB OASIS MISO – St. Paul

 SPC – Yong Zheng SPC - Colin Nicholson