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| O.O. | **16-08819-OO** | | MISO No. | **1-11093559** | File No. |  |
| **Name of Outage:** | | 230 kV Line S53G (St. Leon – Glenboro) | | | | |
| **Effective Dates:** | | 2016-07-08 from 2126 to 2016-07-12 at 1600 CDT  (2016-07-08 from 2126 to 2016-07-12 at 1600 EST) | | | | |
| **Standing Guide Reference:** | | MH-SPC Summer Standing Guide | | | | |

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| **System Posturing** | B10T will be operated within the range of "Scheduled / SOL"  115 / 130 MW South and "Scheduled / SOL"  65 / 80 MW North.  **“GRAPH” MAXIMUM of  1000 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 525 MW**. Use "ARC Constant" value of **575 MW**, for "GRAPH LIMIT" monitoring.  **“GRAPH” MAXIMUM of  975 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 525 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 **A3R 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:** | S53G – MHEB: Line Fault |
|  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **TRANSFER Limits:** | | | | | | | | | |  | | | | | | | | | | **MH-SPC West (MH Export)** | | | | | | | | | |  | **SOL:** | **225** |  | **Schedule Limit** | | **150** |  | | | **Location** | **TTC** | **RM** | **Transfer** | **OM** |  |  | **Schedule Limit** | |  | **(SOL)** |  | **Firm** | **Non-Firm** | | **West** | **225** | **0** | **225** | **150** | **75** | **75** | **150** | |  | | | | | | | | | | | **MH-SPC East (MH Import)** | | | | | | | | | |  | **SOL:** | **75** |  | **Schedule Limit** | | **0** |  | | | **Location** | **TTC** | **RM** | **Transfer** | **OM** |  |  | **Schedule Limit** | |  | **(SOL)** |  | **Firm** | **Non-Firm** | | **East** | **75** | **0** | **75** | **75** | **0** | **0** | **0** | |

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| **MISO RC INFO** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **System Intact** | **FIRM SCHED LIMIT** | **DYNAMIC SCHED LIMIT** | **SOL** | **TLR1** | **TLR3** | | MH-SPC\_West (MH Export) | 75 | 150 | 225 | 209 | 214 | | MH-SPC\_East (MH Import) | 0 | 0 | 75 | 70 | 71 | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **MISO Webtool Postings** | **TTC** | **Firm TRM** | **Non-Firm TRM** | **Coeff** | | **MH\_SPC \_West (Export)** | **225** | **150** | **150** | **0.500** | | **MH\_SPC\_East (Import)** | **75** | **75** | **75** | **1.0** | |
| **Special Instructions:** | **TOI Extensions** - This TOI may be extended until 23:59 by performing the following steps:   1. Verify system conditions to confirm there are no additional tie line facilities outages, or new internal MH outages. 2. Review RTCA to confirm there are no new contingencies. 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. Extend the outage in COLA. 5. Update TLAP outage table. 6. Provide notice to affected balancing authorities |

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| **Prepared By:** | S.W. Saboraki | **Date:** | 2016 07 09 |

Copies to:

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SPC