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| O.O. | **17-08668-RT** | | MISO No. | **1-14704523** | File No. | 240802 |
| **Name of Outage:** | | Raven Lake 230-115-13.8kV Bank 3 | | | | |
| **Effective Dates:** | | 2017-08-08 from 2100 to 2017-08-10 at 1600 CDT  (2017-08-08 from 2100 to 2017-08-10 at 1600 EST) | | | | |
| **Standing Guide Reference:** | | MH-SPC TLAP Summer Postings Table 1, NOP-1102-07-APP-02 | | | | |

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| **System Posturing** | B10T will be operated within the range of "Scheduled / SOL"  125 / 140 MW South and "Scheduled / SOL"  50 / 65 MW North.  **West Flow**  **“GRAPH” MAXIMUM of  925 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 **475 MW**, for "GRAPH LIMIT" monitoring.  **East Flow**  **“GRAPH” MAXIMUM of  925 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 **475 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:** | Insulation tests on Glenboro 230 kV Line G37C Line/Sync PTs, Glenboro R1 CTs. |
|  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **TRANSFER Limits:** | | | | | | | | | |  | | | | | | | | | | **MH-SPC West (MH Export)** | | | | | | | | | |  | **SOL:** | **250** |  | **Schedule Limit** | | **225** |  | | | **Location** | **TTC** | **RM** | **Transfer** | **OM** |  |  | **Schedule Limit** | |  | **(SOL)** |  | **Firm** | **Non-Firm** | | **West** | **250** | **0** | **250** | **25** | **225** | **0** | **225** | |  | | | | | | | | | | | **MH-SPC East (MH Import)** | | | | | | | | | |  | **SOL:** | **75** |  | **Schedule Limit** | | **50** |  | | | **Location** | **TTC** | **RM** | **Transfer** | **OM** |  |  | **Schedule Limit** | |  | **(SOL)** |  | **Firm** | **Non-Firm** | | **East** | **75** | **0** | **75** | **25** | **50** | **0** | **50** | |

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| **MISO RC INFO** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **System Intact** | **FIRM SCHED LIMIT** | **DYNAMIC SCHED LIMIT** | **SOL** | **TLR1** | **TLR3** | | MH-SPC\_West (MH Export) | 225 | 225 | 250 | 233 | 238 | | MH-SPC\_East (MH Import) | 50 | 50 | 75 | 70 | 71 | |
| **MISO Webtool Manual Override is Required**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **MISO Webtool Postings** | **TTC** | **Firm TRM** | **Non-Firm TRM** | **Coeff** | | **MH\_SPC \_West (Export)** | **250** | **225** | **0** | **1.000** | | **MH\_SPC\_East (Import)** | **75** | **50** | **0** | **1.000** | |
| **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:** | J. Kergen | **Date:** | 2017.08.08 |

Copies to:

SOSS, 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