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| O.O. | **17-00227-OO** | MISO No. | **1-06762475** | File No. | 240803 |
| **Name of Outage:** | 230kV Line R49R Richer to Ridgeway |
| **Effective Dates:** | 2017-10-16 at 0800 to 2017-10-31 at 1630 CDT(2017-10-16 at 0900 to 2017-10-31 at 1730 EST)  |
| **Standing Guide Reference:** | Study as per TLAP table 1, Summer Limits |

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| **Description of Work:** | Sectionalize 230kV Line R49R |
| **TRANSFER LIMITS:** |
|  **MH-USA South (MH Export)** |
|  |  |  | **SOL:**  | **1970** |  | **Schedule Limit** | **1745** |
| **Location** |  | **RM** |  | **CRSG**  | **OM** |  |  | **Schedule Limit**  |
| **TTC** | **Transfer (SOL)** | **Firm** | **Non-Firm** |
| **USA** | **2285** | **315** | **1970** | **150** | **75** | **1745** | **0** | **1745** |
|  |
|
|  **MH-USA North (MH Import)** |
| **IROL**  | **1010** |  | **SOL:**  | **800** |  | **Schedule Limit** | **750** |
| **Location** |  | **RM** |  | **CRSG** | **OM** |  |  | **Schedule Limit**  |
| **TTC** | **Transfer (SOL)** | **Firm** | **Non-Firm** |
| **USA** | **800** | **0** | **800** | **500** | **290** | **10** | **740** | **750** |
|   |
| **TLR Triggers** | **South TLR 1** | **South TLR 3** | **North TLR 1** | **North TLR 3** |   |
| **1784** | **1820** | **744** | **760** |

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| **MISO Webtool Postings (Winter)** |

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| **MISO Webtool Postings** | **TTC** | **TRM** | **Coeff** |
| **MHEX\_S (Export)** | **2285** | **540** | **1.000** |
| **MHEX\_N (Import)** | **800** | **790** | **0.063** |

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| **Special Notes to MISO North RC** | A) During this prior outage condition generation curtailment of the St. Joseph and St. Leon wind farms concurrent with TLR on MHEX\_N may be required when Manitoba to USA flows are north to prevent post contingent overloads on G37C following a trip of B10T or M602F.B) The SOL does not change for MHEX\_S and MHEX\_N if MISO RTCA and MISO Flowgate Monitoring Tool are unavailable prior to or during this outage. |

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| **Special Instructions to MHEB Operator:** | **A)** **TOI Extentions** - 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

**B)** **When called upon by MISO for the supply of CRSG:**If Real Time Contingency Analysis (RTCA) indicates a post contingent overload condition on Y51L for the contingent loss of D14S - redispatch MH generation to maintain CRSG delivery as per:* Start Brandon Gas Generation and run up to 60 MW.

Brandon generation must be re-dispatched from HVDC generation at Dorsey* After 60 MW re-dispatch is complete, should RTCA continues to indicate a post contingent overload condition on Y51L due to the contingent loss of D14S,

Continue to re-dispatch generation from Brandon gas in 10 MW increments until post contingent overload on Y51L has been mitigated.* The mitigation must be completed within 30 minutes.
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| **Prepared By:** | J. Kergen | **Date:** | **2017 10 17** |

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Copies to:

 SOSS, System Control Centre MISO

 NSSS, System Control Centre GSO, System Control Centre

 GSSS, System Control Centre