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| O.O. | **17-00404-OO**  **17-00394-OO**  **17-01993-OO**  **17-03911-OO** | | MISO No. | **1-11008726**  **1-10808895**  **1-12860429**  **1-13342111** | File No. | 240803 |
| **Name of Outage:** | | 500 kV line 601 Forbes to Chisago  500 kV line M602F Riel to Forbes  500 kV line D603M Dorsey to Riel  Riel Bank T71 | | | | |
| **Effective Dates:** | | 2017-05-20 1500 to 2017-05-28 2359 CDT  2017-05-20 1500 to 2017-05-28 2359 EST | | | | |
| **Standing Guide Reference:** | | Study as per K. Long | | | | |

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| **Description of Work:** | | BP3 Crossing and Skywire Removal | | | | | | | | | |
| **TRANSFER LIMITS:** | | | | | | | | | | | |
| **MH-USA South (MH Export)** | | | | | | | | | | | |
|  | |  | |  | **SOL:** | **570** |  | **Schedule Limit** | | **520** |
| **Location** | |  | | **RM** |  | **CRSG** | **OM** |  |  | **Schedule Limit** |
| **TTC** | | **Transfer (SOL)** | **Firm** | **Non-Firm** |
| **USA** | | **525** | | **0** | **525** | **0** | **260** | **310** | **210** | **475** |
|  | | | | | | | | | | |
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| **MH-USA North (MH Import)** | | | | | | | | | | |
| **IROL** | | **680** | |  | **SOL:** | **420** |  | **Schedule Limit** | | **370** |
| **Location** | |  | | **RM** |  | **CRSG** | **OM** |  |  | **Schedule Limit** |
| **TTC** | | **Transfer (SOL)** | **Firm** | **Non-Firm** |
| **USA** | | **420** | | **0** | **420** | **0** | **420** | **0** | **370** | **370** |
|  | | | | | | | | | | |
| **TLR Triggers** | | **South TLR 1** | | **South TLR 3** | **North TLR 1** | **North TLR 3** |  | | | |
| **494** | | **499** | **391** | **399** |

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| **MISO Webtool Postings** | |  | | --- | |  | | **MISO Webtool Postings** | | **TTC** | **TRM** | **Coeff** | | **MHEX\_S (Export)** | | **528** | **260** | **1.00** | | **MHEX\_N (Import)** | | **420** | **420** | **0.119** | |

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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 for MHEX\_S is 700 MWs and MHEX\_ N is 385 MWs if the MISO RTCA and MISO Flowgate Monitoring Tool is 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 |

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| **Special Instructions to MHEB Operator (cont):** | **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:** | 1. Hogeveen Rutter | **Date:** | 2016 05 30 |
| **Revised By:** | P. Grestoni |  | 2017 05 12 |
| **Revised By:** | B Smith |  | 2017 05 20 |
| **Revised By:** | B Freeman |  | 2017 05 21 |

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|  |

Copies to:

SOSS, System Control Centre MISO

NSSS, System Control Centre GSO, System Control Centre

GSSS, System Control Centre