ONTARIOPOWER GENERATION

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N-FORM-10134-R003*

Barrier Analysis Worksheet

Adverse Condition	Barrier(s) that should have precluded Condition	How the Barrier Failed	Why(s) the Barrier Failed
Delay to TRF re-start due to ACS project 16-38401 delays	TRF ACS Fan 1 (0-39520-F1) Internal interferences (baffle, impellers): As-Found condition & inability to re-assemble using current issued maintenance procedure NK38-MMI-39500-10001.	The condition of TRF ACS Fan 1 internal interferences was not disclosed to Project during COMS/ detailed design, and was not identified in Issue Tracking File. There was a lack of detailed maintenance procedure to enable dis-assembly and re-assembly of TRF ACS Fan 1.	Lack of communication - During detailed design, Project requested OPEX/Details/Photos/Maintenance Logs from TRF and was informed that requested information was unavailable. Project also requested pre-outage equipment inspection of fan 1 enclosure to view internals but was informed this was not feasible as an unplanned TRF outage would be required affecting TRF ACS availability.
	Engineering documentation and drawings on length of power supply cables	Project team was informed that TRF did not have any engineering drawings or documents on the fan motors or power supply cables	Lack of documentation and drawings
	Directed Change from TRF	The postponement of ACS maintenance window within the TRF T1301 outage reduced the schedule float for the ACS modification and extended the overall outage duration.	TRF wanted to minimize ACS unavailability by having LPSW tie-in work and TRF ACS work executed during the same TRF maintenance window (ACS is a poised system & requires DOM approval for >24hours outage or to take it out of service).

*Associated with N-STD-RA-0008, Incident Investigation