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
Procurement of long lead items started prior to final scope of project approved which lead to rework	CF-R -Conditions in management control processes that can provoke error in the workplace were not used. -Station processes not used as effectively to search for and eliminate conditions that lead to human error.	Scope definition stage of engineering change control governance identitfies that long lead item procurement/design may occur as early as modification planning stage (N-PROC-MP-0090/N-GUID-00700-10000). Heavy water management building was in the scope definition phase when approval was given for for the procurement/design of long lead items without an approved and accepted technical specification.	FD-PAIU-Information Use procedure not used in accordance with established requirements as not all actions were performed as written Project team was under tight deadline and misinterpreted the procedure on when long lead items can be procured / designed. Additionally, N-PROC-MP-0089 requires all nuclear class system and components to have a approved and certified technical specification.
Preliminary design requirement document did not contain all required information and operating experience not used for the D2O vapor recovery system.	CF-N1 - Inadequate technical requirements in component or part of manufacture specification CF-B1 - Procedures are not adequately documented or are missing.	Environmental stakeholder was not involved in the approval of the preliminary design requirement document and OPEX was not utilized.	FD-APQ – Administrative procedures are not available FD-VA- Not verifying assumptions or justifying the basis for judgement There was no checklist/procedure on the creation of a PDR document which missed critical stakeholders. Additionally TRF stakeholder accepted that the current design will be improved / fixed during the detailed design stage when in fact OPEX should of been incorporated into the PDR. Preliminary design requirements are not governed by any procedure like modification design requirements and requirements are not clear.

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

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