Attachment 1 – JT2.16

Critical Equipment Identification and Categorization

CC	Reactor Safety (RS) Criteria	Production (P) Criteria	Cost, Conventional Safety, Environmental (CCSE) Criteria
CC1	**RS1:** • Components in an OSR system that is also a System Important to Safety (SIS) whose failure results in a System Unavailability (SÃ) impairment condition, • Components credited in the Probabilistic Safety Assessment (PSA) that satisfies the condition that the Risk Achievement Worth (RAW) > 2 and Fussell-Vesely (F-V) > 0.005 • Components credited in the Probabilistic Safety Assessment (PSA) that satisfies the condition that the Risk Achievement Worth (RAW) > 2 or Fussell-Vesely (F-V) > 0.005. If the consequences associated with the equipment failure are better aligned to the CC2 or CC3 definition, the site Reactor Safety Manager may override to an RS2 or RS3 code with appropriate documentation and justification in IQReview .	**P1:** Component whose failure causes a reactor trip, turbine trip or unit outage within 24 hours if not corrected. **P4:** Component whose failure causes a unit de-rating greater than 10% in < 24 hours.	
CC2	**RS2:**	**P2:** Component whose failure results in a unit outage within seven (7) days, but not within 24	

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	• Components in an OSR system that is also a SIS whose failure results in a Total Loss of Redundancy (TLOR) impairment condition • Component in an OSR system that is also a SIS system whose failure results in a Partial Loss of Redundancy (PLOR) impairment condition. If the consequences associated with the equipment failure are better aligned to the CC3 definition, the site Reactor Safety Manager may override to an RS3 code with appropriate documentation and justification in IQReview. • Component in an OSR system that is also a non SIS system whose failure results in a system unavailability impairment condition.	hours as defined in station operating documentation. **P7:** Component whose failure causes a unit de-rating within seven (7) days of greater than 5%, but less than 10%.	
CC3	**RS3:** • Components in an OSR system that is also a non-SIS whose failure results in a Loss of Redundancy (LOR) impairment condition. If the consequences associated with the equipment failure are better aligned to the CC2 definition, the site Reactor Safety Manager may override to an RS2 code with appropriate documentation and justification IQReview. • Components not covered by any of	**P3:** Component that if not available would physically not allow unit restart and be returned to greater than 95% power within seven (7) days after an outage. **P5:** Conditional Critical: Redundant equipment where a second failure of parallel equipment causes a reactor, turbine trip or otherwise would result in a unit outage. **P6:** Conditional Critical: Redundant equipment where a second failure of parallel equipment causes a unit de-rating greater than 10%. **P8:** Equipment (including supporting equipment)	**CCSE1:** Component whose failure directly results in a violation of federal or provincial environmental or worker safety regulations, i.e., OHSA, MOL, MOE, MISA, Emissions etc. (Regulatory Violation). **CCSE2:** Component whose failure directly results in an administrative environmental limit being exceeded, but does not directly result in a violation limit being exceeded. **CCSE3:** Equipment replacement cost greater than $500,000 (or maintenance

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	the above that are included in any credited Safety Related System test (SRST) or Surveillance Rounds credited in the Probabilistic Safety Assessment (PSA).	whose failure results in loss of redundancy. Additional redundancy still exists resulting in low probability of a unit-trip, outage or de-rating, i.e. at least three redundant trains are present by design or whose failure results in an outage but not within seven (7) days as defined in station operating documentation.	burden >250 hours). **CCSE4:** Equipment failure that causes an operator workaround per N-PROC-OP-0041.
CC4	**RS4:** The balance of Safety-Related Systems (**P-LIST-06937-00001**, Pickering A and B List of Safety Related Systems NK38-LIST-06937-10001, List of Safety Related Systems and Functions) Components that do not qualify in any of the RS1,2,3 rankings	**P9:** Equipment failure that does not qualify for any of the P1 – P8 Production Criteria. Failure of these individual components may result in equipment unavailability for extended periods of time without causing a trip, or de-rating of the unit.	**CCSE7:** Failure does not meet any of the criteria of CCSE1, CCSE2, CCSE3, or CCSE4.
N/A	**RS N/A:** Component does not meet any of the criteria of RS1, RS2, RS3, or RS4	**P N/A:** Exempted equipment per Appendix E of N-PROC-MA-0077	**CCSE-N/A:** Exempted equipment per Appendix E of N-PROC-MA-0077.