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AUTOMATED RECORD MANAGEMENT  
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## Technical Requirements Manual

Volume I

Detroit  
Edison

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TR 3.3 INSTRUMENTATION

TR 3.3.12 Explosive Gas Monitoring Instrumentation

TRLCO 3.3.12 One offgas monitoring system hydrogen monitoring channel shall be OPERABLE.

AND

Offgas hydrogen concentration downstream of the recombiners shall be  $\leq 4\%$  by volume.

APPLICABILITY: During main condenser offgas treatment system operation.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The required hydrogen monitoring instrumentation channel inoperable.	A.1.1 Collect hydrogen grab sample.  <u>AND</u>	Once per 4 hours
	A.1.2 Analyze hydrogen grab sample.  <u>OR</u>	4 hours after collection of grab sample
	A.2 Record local hydrogen readings  <u>AND</u>	Once per 4 hours
	A.3 Restore required offgas hydrogen monitoring instrumentation channel to OPERABLE status.	30 days
B. Required Action and associated Completion Time of required Action A.1 or A.2 not met.	B.1 Suspend release of radioactive effluents via this pathway.	Immediately

(continued)



TR B3.3 INSTRUMENTATION

TR B3.3.12 Explosive Gas Monitoring Instrumentation

BASES

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The explosive gas monitoring instrumentation is provided to monitor the concentrations of potentially explosive gas mixtures in the main condenser offgas treatment system. The OPERABILITY and use of this instrumentation is consistent with the requirements of General Design Criterion 60 of Appendix A to 10 CFR Part 50.

This specification also ensures that the concentration of potentially explosive gas mixtures contained in the main condenser offgas system is maintained below the flammability limits of hydrogen and oxygen. Maintaining the concentration of hydrogen below the flammability limit provides assurance that the releases of radioactive materials will be controlled in conformance with the requirements of General Design Criterion 60 of Appendix A to 10 CFR Part 50.

Collecting and analyzing hydrogen grab samples and recording local readings (analyzer A or B on Panel H21-P275A, TBB-P0) are equivalent actions. Both allow verifying offgas hydrogen concentration is within limits.

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