US-APWR

Methodology of Pipe Break Hazard Analysis

Non-Proprietary Version

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ABSTRACT

This report sets down the protection design standard for pipe rupture protection in US-APWR and specifies the calculation method for the thrust force and jet impingement force.

Pipe rupture protection design is implemented to conform to 10 Code of Federal Regulations ("CFR") Part50, Appendix-A, General Design Criteria ("GDC") 4. Evaluation requirements and design policy are shown specifically in this standard based on the concept of deep-layered protection at nuclear plant.

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LIST OF ACRONYMS

The following list defines the acronyms used in this document.

MHI	Mitsubishi Heavy Industries, Ltd.
NRC	U.S. Nuclear Regulatory Commission
CFR	Code of Federal Regulations
GDC	General Design Criteria