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A001

# TRM

**APPROVED AMENDMENT TO  
UNIT 1 TECHNICAL REQUIREMENTS MANUAL  
EFFECTIVE DATE 10/4/02**

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Replace the following pages of the Technical Requirements Manual with the enclosed pages. The revised pages are identified by Effective Date and contain vertical lines indicating the area of change.

<b>REMOVE PAGES</b>	<b>EFFECTIVE DATE</b>	<b>INSERT PAGES</b>	<b>EFFECTIVE DATE</b>
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SUSQUEHANNA STEAM ELECTRIC STATION  
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1.0 USE AND APPLICATION

1.1 Definitions

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NOTE

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1. The defined terms of this section and the Technical Specifications appear in capitalized type and are applicable throughout these Technical Requirements and Bases.
  2. Terms used in these Technical Requirements are as defined in the Technical Specifications or as defined below.
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Term

Definition

GASEOUS RADWASTE TREATMENT SYSTEM

A GASEOUS RADWASTE TREATMENT SYSTEM shall be any system designed and installed to reduce radioactive gaseous effluents by collecting primary coolant system offgases from the primary system and providing for delay or holdup for the purpose of reducing the total radioactivity prior to release to the environment.

MEMBERS OF THE PUBLIC

MEMBER(S) OF THE PUBLIC shall include all persons who are not occupationally associated with the plant. This category does not include employees of the utility, its contractors or vendors. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreational, occupational or other purposes not associated with the plant.

PROCESS CONTROL PROGRAM

The PROCESS CONTROL PROGRAM (PCP) shall contain the sampling, analysis, and formulation determination by which SOLIDIFICATION of radioactive wastes from liquid systems is assured.

PURGE - PURGING

PURGE or PURGING shall be the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is required to purify the confinement.

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(continued)

1.0 USE AND APPLICATION

1.1 Definitions (continued)

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**SITE BOUNDARY**

The **SITE BOUNDARY** shall be that line beyond which the land is not owned, leased, or otherwise controlled by the licensee. See FSAR Section 2.1.1.2.

**SOLIDIFICATION**

**SOLIDIFICATION** shall be the conversion of radioactive wastes from liquid systems to a homogeneous (uniformly distributed), monolithic, immobilized solid with definite volume and shape, bounded by a stable surface of distinct outline on all sides (free-standing).

**SOURCE CHECK**

A **SOURCE CHECK** shall be the qualitative assessment of channel response when the channel sensor is exposed to a radioactive source.

**UNRESTRICTED AREA**

An **UNRESTRICTED AREA** shall be any area at or beyond the **SITE BOUNDARY** access to which is not controlled by the licensee for purposes of protection of individuals from exposure to radiation and radioactive materials, or any area within the site boundary used for residential quarters or for industrial, commercial, institutional, and/or recreational purposes. See FSAR Section 2.1.1.3.

**VENTILATION EXHAUST TREATMENT SYSTEM**

A **VENTILATION EXHAUST TREATMENT SYSTEM** shall be any system designed and installed to reduce gaseous radioiodine or radioactive material in particulate form in effluents by passing ventilation or vent exhaust gases through charcoal absorbers and/or HEPA filters for the purpose of removing iodines or particulates from the gaseous exhaust stream prior to the release to the environment (such a system is not considered to have any effect on noble gas effluents). Engineered Safety Feature (ESF) atmospheric cleanup systems are not considered to be **VENTILATION EXHAUST TREATMENT SYSTEM** components.

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(continued)

1.0 USE AND APPLICATION

1.1 Definitions (continued)

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VENTING

VENTING shall be the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is not provided or required during venting. Vent, used in system names, does not imply a VENTING process.

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TABLE 2.2-1 (Page 4 of 7)  
INSTRUMENTATION SETPOINTS

SYSTEM/REFERENCE LCO [TRO]		TRIP FUNCTION	TRIP SETPOINT
2.2.3.2	LPCI Mode of RHR System		
2.2.3.2.1	3.3.5.1	Reactor Vessel Water Level - Low Low Low, Level 1	$\geq -129$ inches <sup>(a)</sup>
2.2.3.2.2	3.3.5.1	Drywell Pressure - High	$\leq 1.72$ psig
2.2.3.2.3	3.3.5.1	Reactor Vessel Steam Dome Pressure - Low, injection permissive	$\geq 413, \leq 427$ psig
2.2.3.2.4	3.3.5.1	Reactor Vessel Steam Dome Pressure - Low, Recirculation Discharge Valve permissive	$\geq 236$ psig, decreasing
2.2.3.3	HPCI System		
2.2.3.3.1	3.3.5.1	Reactor Vessel Water Level - Low Low, Level 2	$\geq -38$ inches <sup>(a)</sup>
2.2.3.3.2	3.3.5.1	Drywell Pressure - High	$\leq 1.72$ psig
2.2.3.3.3	3.3.5.1	Condensate Storage Tank Level - Low	$\geq 36.0$ inches above tank bottom
2.2.3.3.4	3.3.5.1	Reactor Vessel Water Level - High, Level 8	$\leq 54$ inches
2.2.3.4	Automatic Depressurization System (ADS)		
2.2.3.4.1	3.3.5.1	Reactor Vessel Water Level - Low Low Low, Level 1	$\geq -129$ inches
2.2.3.4.2	3.3.5.1	Drywell Pressure - High	$\leq 1.72$ psig
2.2.3.4.3	3.3.5.1	ADS Timer	$\leq 102$ seconds
2.2.3.4.4	3.3.5.1	Core Spray Pump Discharge Pressure - High	$\geq 135, \leq 155$ psig
2.2.3.4.5	3.3.5.1	Low Pressure Coolant Injection Pump Discharge Pressure - High	$\geq 121, \leq 129$ psig
2.2.3.4.6	3.3.5.1	Reactor Vessel Water Level - Low, Level 3 Confirmatory	$\geq 13$ inches
2.2.3.4.7	3.3.5.1	ADS Drywell Pressure Bypass Timer	$\leq 420$ seconds
2.2.3.5	Loss of Power - ECCS Actuation		
2.2.3.5.1	4.16kv ESS Bus Undervoltage (Loss of Voltage < 20%)		
2.2.3.5.1.1	3.3.8.1	Bus Undervoltage	$\geq 823.2, \leq 856.8$ Volts
2.2.3.5.1.2	3.3.8.1	Time delay	$\geq 0.4, \leq 0.6$ seconds

(continued)

<sup>(a)</sup> See Figure 2.2-1