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TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

REMOVE MANUAL TABLE OF CONTENTS DATE: 06/25/2002

ADD MANUAL TABLE OF CONTENTS DATE: 07/17/2002

CATEGORY: DOCUMENTS TYPE: TRM

ID: TRM2

REPLACE: REV:N/A

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ADD

TRM

APPROVED AMENDMENT TO
UNIT 2 TECHNICAL REQUIREMENTS MANUAL

EFFECTIVE DATE 06/25/2002

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.

REMOVE PAGES	EFFECTIVE DATE	INSERT PAGES	EFFECTIVE DATE
TRM / LOES	06/14/2002	TRM / LOES	06/25/2002
2.0-2 thru 2.0-4	08/31/1998	TRM / 2.0-2 thru TRM / 2.0-4	06/25/2002
TRM / B 3.3-14	06/14/2002	TRM / B 3.3-14	06/25/2002

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SUSQUEHANNA STEAM ELECTRIC STATION
LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

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B.3.12	LOADS CONTROL PROGRAM BASES Pages TRM / B 3.12-1 through TRM / B 3.12-3	02/05/1999

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2.1.1	Offsite Dose Calculation Manual (ODCM)	Tech Spec 5.5.1	ODCM-QA-001 ODCM-QA-002 ODCM-QA-003 ODCM-QA-004 ODCM-QA-005 ODCM-QA-006 ODCM-QA-007 ODCM-QA-008 ODCM-QA-009	ODCM Introduction ODCM Review and Revision Control Effluent Monitor Setpoints Airborne Effluent Dose Calculations Waterborne Effluent Dose Calculations Total Dose Calculations Radioactive Waste Treatment Systems Radiological Environmental Monitoring Program Dose Assessment Policy Statements
2.1.2	Primary Coolant Sources Outside Containment	Tech Spec 5.5.2	NSEP-QA-401	System Leakage Quantification Program
2.1.3	Post Accident Sampling	Tech Spec 5.5.3	NTP-QA-52.1 EP-PS-114 EP-PS-115 CH-SY-004 CH-SY-011 CH-IC-027 Team Manual CH-GI-051 CH-IC-016	Emergency Plan Training Program Nuclear Emergency Planning Chemistry Sampling Team Functional Test post Accident Sampling Station Post Accident Vent Stack Sampling System Funct.Test Calib. of Post Accident Vent Stack Sampling System Sections 2, 4, 6 Instrument Checks at the Offsite Chemistry Lab Calibration of Eberline SPING Monitors

(continued)

**Table 2.1-1
PLANT PROGRAMS
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PROGRAM DESIGNATION		PROGRAM SOURCE	IMPLEMENTING DOCUMENT	
			SC-070-008	Calib. of SGT Vent Rad Monitor Accident Mon. Ch.
			SC-133-108	Calib. of U1 TB Vent Rad Monitor Accident Mon. Ch
			SC-134-108	Calib. of U1 RB Vent Rad Monitor Accident Mon. Ch
			SC-233-108	Calib. of U2 TB Vent Rad Monitor Accident Mon. Ch
			SC-234-108	Calib. of U2 RB Vent Rad Monitor Accident Mon. Ch
2.1.4	Radioactive Effluent Controls	Tech Spec 5.5.4	TRO 2.1.1	ODCM
			TRO 3.6.1	Containment VENTING and PURGING
			TRO 3.11 Series	RADIOACTIVE EFFLUENTS
2.1.5	Component Cyclic or Transient Limit	Tech Spec 5.5.5	NEPM-QA-0901	Plant Transient and Fatigue Monitoring Program
2.1.6	Inservice Testing	Tech Spec 5.5.6	NDAP-QA-0423	Station Pump and Valve Testing Program
			NDAP-QA-0480	ASME Section XI System and Component Pressure Testing
			NDAP-QA-1608	Inservice Inspection (ISI)
2.1.7	Ventilation Filter Testing	Tech Spec 5.5.7	NDAP-QA-0407	Filter Testing of HEPA and Charcoal Filtration Units
2.1.8	Explosive Gas and Storage Tank Radioactivity Monitoring	Tech Spec 5.5.8	NDAP-QA-1180	Storage Tank Radioactivity Monitoring Program
			TRO 3.7.5.1	Main Condenser Offgas Hydrogen Monitor
			TRO 3.7.5.2	Main Condenser Explosive Gas Mixture

(continued)

**Table 2.1-1
PLANT PROGRAMS
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PROGRAM DESIGNATION		PROGRAM SOURCE	IMPLEMENTING DOCUMENT	
2.1.9	Diesel Fuel Oil Testing	Tech Spec 5.5.9	NDAP-QA-0633	Diesel Fuel Oil Testing
2.1.10	Technical Specification (TS) Bases Control	Tech Spec 5.5.10	NDAP-QA-0730	Controlling Changes to Licensing Documents
2.1.11	Safety Function Determination	Tech Spec 5.5.11	NDAP-QA-0312	Safety Function Determination Program
2.1.12	Primary Containment Leakage Rate Testing	Tech Spec 5.5.12	NDAP-QA-0412	Leakage Rate Test Program
2.1.13	Fire Protection	Item d; Tech Spec 5.4.1	NDAP-QA-0449	Fire Protection Program

B 3.3.7 Main Turbine Overspeed Protection System

BASES

TRO The Main Turbine Overspeed Protection System is designed to protect the main turbine from excessive overspeed by initiating a turbine trip by fast closure of the turbine control valves and closure of the intercept valves to essentially secure all steam flow to the turbine (Ref. 1).

To protect the turbine generator from overspeed conditions, two trip devices are provided. Either device, when initiated, will close the main stop valves, control valves, and combined intermediate valves thus isolating the turbine (Ref. 2).

These two trip devices are as follows:

- A mechanical overspeed trip which is initiated if the turbine speed reaches approximately 10% above rated speed, and
- An electrical overspeed trip which serves as a backup to the mechanical trip and is initiated at approximately 12% above rated speed.

OPERABILITY of at least 1 of the 2 overspeed protection systems is required for the Turbine Overspeed Protection System to be considered **OPERABLE**.

Main Turbine Overspeed Protection System (MTOPS) **OPERABILITY** is also based upon the ability of the valves that control steam flow to the turbine to close following the receipt of a closure signal. The 4 stop valves, 4 control valves, 6 intermediate stop valves, and 6 intercept valves make up a system of 20 valves. A single failure to any one of the above system of 20 valves will not prevent a turbine trip (Ref. 2). Hence, if 19 of the 20 noted valves are **OPERABLE**, the MTOPS is **OPERABLE**. Note that for this statement to be true, the intermediate stop valves and intercept valves are considered separate valves. Overspeed protection is only disabled on a CIV failure if both valves within a CIV are inoperable. Failure of only one valve in a CIV does not prevent an overspeed trip, and does not affect operability. Actions to close one inoperable valve if two valves are inoperable maintain the unit within the analysis in Ref. 2. However, redundancy is reduced and repairs should be completed in accordance with the corrective action program.

Excessive turbine overspeed could generate potentially damaging missiles that could present a personnel and equipment hazard. MTOPS is not necessary to provide adequate protection of the public health and safety and is not required to obviate the possibility of an abnormal situation or event giving rise to an immediate threat to the public health and safety.

ACTIONS The Actions are defined to ensure proper corrective measures are taken in response to the inoperable components.

(continued)