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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																			
EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10																			
02 While in Operational Condition 5 (Refueling) the Reactor Coolant System temperature																			
03 was allowed to exceed 140°F. The shutdown cooling system was operable and in-																			
04 service at the time. There were no radiological consequences due to this event.																			
05 The unit was not in a Refueling outage. This temperature increase lasted approxi-																			
06 mately 45 minutes.																			
07																			
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SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE																			
C F 11 A 12 A 13 Z Z Z Z Z Z 14 Z 15 Z 16																			
17 LER/RO REPORT NUMBER 83																			
EVENT YEAR 83																			
18 ACTION TAKEN G																			
19 FUTURE ACTION Z																			
20 EFFECT ON PLANT Z																			
21 SHUTDOWN METHOD Z																			
22 HOURS 00000																			
23 ATTACHMENT SUBMITTED Y																			
24 NPD-4 FORM SUB. N																			
25 PRIME COMP. SUPPLIER Z																			
26 COMPONENT MANUFACTURER Z999																			
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27																			
10 The Reactor Coolant temperature was not being recorded while in Operational Con-																			
11 dition 5. The operator was periodically monitoring temperature and varying Shut-																			
12 down Cooling flow to maintain cooling to the core. The temperature was reduced and																			
13 procedures have been revised.																			
14																			
FACILITY STATUS % POWER OTHER STATUS 30 METHOD OF DISCOVERY DISCOVERY DESCRIPTION 32																			
15 G 28 000 29 NA A 31 Operator Observation 32																			
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36																			
16 Z 33 Z 34 NA NA																			
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39																			
17 000 37 Z 38 NA																			
PERSONNEL INJURIES NUMBER DESCRIPTION 41																			
18 000 40 NA																			
LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION 43																			
19 Z 42 NA																			
PUBLICITY ISSUED DESCRIPTION 45																			
20 N 44 NA																			
NRC USE ONLY																			

ATTACHMENT

LER # 83-161/01^m-0

Pennsylvania Power & Light Company
Susquehanna Steam Electric Station
Docket Number: 50-387

While in Operational Condition 5 (Refueling), the Reactor Coolant System (RCS) was allowed to exceed 140°F for approximately 45 minutes. This temperature limit is imposed by the footnote of the applicability statement of Technical Specification 3.9.1 and Table 1.2 from the Definitions section of Technical Specifications. The Shutdown Cooling system was operable and in service during this event and operating in an alternating bypass - cooling mode. There were no radiological consequences due to this temperature excursion. The Unit was not in a Refueling Outage.

The monitoring and recording of RCS temperature was a shiftly surveillance, but was not applicable in Refueling mode. The surveillance was established primarily to maintain RCS temperature greater than 70°F whenever the reactor vessel head was in place and tensioned (NDT imposed limit). The operation of the Shutdown Cooling system in an alternating bypass-cooling mode is necessary to avoid low-flow induced vibrations at the flow control valves by maintaining greater than 10,000 gpm flow (see LER's 83-034 and 83-091). This type of operation results in a cyclic temperature trend and previously has not required close monitoring to stay below 140°F due to the small amount of decay heat. When the operator noticed the RCS temperature to be greater than 140°F (approximately 150°F), he immediately reduced the amount of bypass flow thereby increasing the amount of cooling flow in the Shutdown Cooling system. The temperature was reduced to less than 140°F.

The Shiftly Surveillance Log (SO-100-006) has been revised and now imposes an administrative limit on RCS temperature of 135°F when in Refueling mode and requires hourly recordings of this temperature.



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

December 22, 1983

Dr. Thomas E. Murley
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 83-161/01T-0
ER 100450 FILE 841-23
PLA-2015

Docket No. 50-387
License No. NPF-14

Dear Dr. Murley:

Attached is Licensee Event Report No. 83-161/01T-0. This event was determined to be reportable per Technical Specification 6.9.1.8(b), in that the Reactor Coolant System temperature was allowed to increase to approximately 150°F while the Plant was in Operational Condition 5 (Refueling). There is no Technical Specification written expressly for the monitoring/limiting of RCS temperature when in Refueling Mode, however, the footnote to the applicability statement of Technical Specification 3.9.1, and Table 1.2, from Definitions Section of Technical Specifications, form a requirement to maintain the RCS temperature $\leq 140^{\circ}\text{F}$.

H.W. Keiser
Superintendent of Plant-Susquehanna

JTT/pjg

Attachment

cc: L. Plisco
Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 52
Shickshinny, PA 18655

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U.S. Nuclear Regulatory Commission
Washington, DC 20555

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