NRC Form 366 (9-83)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104
EXPIRES - 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
INDIAN POINT UNIT NO. 2	0 5 0 0 0 2 4 7	1 OF 0 3

TITLE (4)

Ultimate Heat Sink Temperature in excess of Tech. Spec. limits

EVENT DATE (6)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
0 8	0 3	8 8	8 8	— 0 1 0 —	0 0	0 9	0 1	8 8		0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9): N

POWER LEVEL (10): 1 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
20.405(a)(1)(iv)	X 50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER (AREA CODE)
Getachew Tesfaye, Engineer	9 1 4 5 2 6 - 5 1 9 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

ABSTRACT:

On August 3, 1988 at 1400 hours, while the plant was at full power, the measured Hudson River water temperature at the plant inlet exceeded 85°F. The Service Water System (SWS) which receives water from the Hudson River, was evaluated for operation with a maximum temperature of 85°F. The cooling requrements for equipment specified to be operable in the Technical Specification are in part based on a maximum SWS inlet temperature of 85°F. The plant entered Technical Specification Paragraph 3.0.1 which applies when circumstances in excess of those addressed in the specification exist.

The plant entered Technical Specification 3.0.1 on several occasions between August 3 and August 10, when the service water temperature exceeded the Technical Specification limitations. Over a three week period several emergency Technical Specification amendments were requested culminating in a temporary Technical Specification change revising the limit to 90°F which will revert to 85°F on October 1, 1988. The health and safety of the public were not affected by this event.

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PDR ADOCK 05000247
S PNU

Plant and System Identification:

Westinghouse 4-loop pressurized water reactor. Service Water System.

Identification of Occurrence:

High river water temperature placed the plant in a condition where circumstances are in excess of Technical Specification limitations.

Event Date: August 3 through August 10, 1988

Past Similar Occurrences: None.

Significant Occurrence Report: SOR's 88-391, 392, 393, 394, 398, 401, 402, 411, 412.

Description of Occurrence:

On August 3, 1988 at approximately 1400 hours, while the plant was at full power, the measured Hudson River water temperature at the plant inlet exceeded 85°F. The Service Water System, which receives water from the Hudson River, was evaluated to operate with a maximum temperature of 85°F. Maximum river water temperatures have historically occurred during July and August, with daily average peak temperatures of 81°F. However this year, the Indian Point Unit 2 site experienced unusual and unforeseen summer weather conditions which have impacted the temperature of the river water. Consequently, the average and peak plant inlet temperatures the facility has experienced in July and August 1988 have been approximately 5°F to 10°F above seasonal norms. This increase was dependent upon tidal variations which at times, can cause the heated plant water discharge to flow towards, and be taken up by, the service water intakes.

Between August 3, 1988 and August 5, 1988, the plant conservatively entered Technical Specification paragraph 3.0.1 five times when the instantaneous service water temperature exceeded 85°F. This was done because cooling requirements for equipment specified to be operable in the Technical Specifications are in part based on maximum SWS inlet temperature of 85°F. On two occasions actual plant shut down commenced, 10 CFR 50.72 notifications and Notification of Unusual Event (NUE) were made according to the Plant Emergency Plan. The entry into Tech. Spec. Paragraph 3.0.1 was necessitated because of circumstances in excess of those addressed in the limiting conditions for operation of equipment that is ultimately cooled by the SWS.

On August 5, 1988, a waiver was received from the NRC which permitted the operation of Indian Point 2 at up to 100% rated thermal power with measured service water inlet temperatures less than or equal to 87°F.

Subsequent to the issuance of the August 5, 1988 waiver, on August 11, 1988, Consolidated Edison requested that the maximum limit for service water temperature be further increased to 90°F. On August 12, 1988, the Commission granted a modification to the waiver as requested. In the mean time, it was found necessary to enter Technical Specification 3.0.1 four times, between August 5 and 10 when the measured service water temperature exceeded 87°F.

Analysis of Occurrence:

This event is reportable since the plant entered a Technical Specification provision which constitutes a "condition prohibited by the Technical Specification" as a result of equipment in the plant, that is required to be operable, being in circumstances that were outside the design basis. Consolidated Edison performed a safety assessment of the equipment cooling requirements at higher service water temperature, and concluded that the safety of the plant was not compromised by operation with service water temperature up to 90°F.

Cause of the Occurrence:

Average and peak river water temperatures, for the current year, have been approximately 5°F to 10°F above normal because of the extended heat wave experienced throughout the region.

Corrective Action:

On August 19, 1988 NRC issued a temporary amendment (Amendment No. 135) to Facility Operating License No. DPR-26, which raised the permissible inlet water temperature limit for the service water system from 85°F to 90°F. The temporary amendment expires on October 1, 1988 at 12:01 a.m., and the limit for service water inlet temperature shall revert to 85°F. Consolidated Edison is currently performing a detailed analysis to determine whether a permanent change in the Service Water temperature, permitted under the Technical Specifications is warranted.

Stephen B. Bram
Vice President

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Indian Point Station
Broadway & Bleakley Avenue
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Telephone (914) 737-8116

September 1, 1988

Re: Indian Point Unit No. 2
Docket No. 50-247
LER 88-10

Document Control Desk
U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

The attached Licensee Event Report LER 88-10 is hereby submitted in accordance with the requirements of 10 CFR 50.73.

Very truly yours,

Attachment

cc: Mr. William Russell
Regional Administrator - Region I
U.S. Nuclear Regulatory Commission
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