ACCELERATED DOCUMENT DISTRIBUTION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9304270134 DOC.DATE: 93/04/22 NOTARIZED: NO DOCKET #
FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
AUTH.NAME AUTHOR AFFILIATION
PLUNKETT,T.F. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Forwards ASME Section XI,Div 1,Code Case N-514, "LTOP," in support of 930408 exemption request.

DISTRIBUTION CODE: A047D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 4
TITLE: OR Submittal: Inservice/Testing/Relief from ASME Code

NOTES:

	RECIPIENT ID CODE/NAME		COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD2-2 LA		1	0	PD2-2 PD	1	1
	RAGHAVAN,L		2	2			
INTERNAL:	NRR/DE/EMEB		1	1	NUDOCS-ABSTRACT	1	1
	~~OGC/LFMB~~		1	0	OGC/HDS3	1	0
	REG FILE	01	1	1	RES MILLMAN,G	1	1
	~~RES/DSIR/EIB~~		1	1			
EXTERNAL:	EG&G BROWN,B		1	1	EG&G RANSOME,C	1	1
	NRC PDR		1	1	NSIC	1	1

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 504-2065) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 15 ENCL 12

NMA-4

R I D S / A D D S / R I D S / A D D S

FPL

P.O. Box 029100, Miami, FL, 33102-9100

L-93-115
10 CFR §50.12
10 CFR §50.60

APR 22 1993

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Subject: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
ASME Code Case N-514

The purpose of this letter is to provide to the staff the attached American Society of Mechanical Engineers (ASME) Section XI, Division 1, Code Case N-514, "Low Temperature Overpressure Protection" referenced by Florida Power & Light Company (FPL) in a recent exemption request for Turkey Point Units 3 and 4.

By letter L-93-093, dated April 8, 1993, FPL requested an exemption from certain requirements of 10 CFR §50.60, "Acceptance criteria for fracture prevention measures for lightwater nuclear power reactors for normal operation" for Turkey Point Units 3 and 4. The exemption is requested by FPL to allow the application of ASME Code Case N-514 in determining the acceptable low temperature overpressure protection (LTOP) Overpressure Mitigating System (OMS) setpoint for Turkey Point Units 3 and 4.

ASME Code Case N-514 allows setting the OMS actuation setpoint such that the LTOP acceptance curves are not exceeded by more than 10%. The ASME Working Group on Operating Plant Criteria (WGOPC) developed code guidelines to define LTOP limits that will avoid certain unnecessary operational restrictions, provide adequate margins against failure, and reduce the potential for unnecessary activation of pressure relieving devices used for LTOP. Additional details of FPL's request to use Code Case N-514 are included in FPL letter L-93-093.

If you have any questions regarding this information, please contact us.

Very truly yours,

T. F. Plunkett
Vice President
Turkey Point Nuclear

TFP/ejw

Attachment

cc: Stewart D. Ebneter, Regional Administrator, Region II, USNRC
Ross C. Butcher, Senior Resident Inspector, USNRC, Turkey Point Plant

260039

A047

L-93-115
Attachment

ASME Code Case N-514
Low Temperature Overpressure Protection
Section XI, Division 1

des and Standards

The American Society of Mechanical Engineers

212 605-3333
212 605-8750 Fax

345 East 47th Street
New York, NY 10017-2392

March 10, 1993

E.L. Anderson
Florida Power & Light
P.O. Box 14000
Juno Beach, FL 33408-8420

Subject: Section XI, Code Case N-514, Low Temperature Overpressure Protection

Reference: Your Letter of February 25, 1993

Dear Mr. Anderson:

In response to your letter of February 25, 1993 to Gerry Eisenberg regarding the status of Code Case N-514 attached is a copy of the Case. The Code Case has been approved by the Boiler and Pressure Vessel Main Committee and the Board on Nuclear Codes and Standards and should be published in Supplement 4 (expected publication by the middle of May 1993).

Yours truly,

Steve Weinman
Assistant Secretary
Boiler & Pressure Vessel Committee
(212) 605-4720

Annex 92-373

Case N-514

ISI 92-10
1 of 1

N-20

Low Temperature Overpressure Protection
Section XI, Division 1

Inquiry: Section XI, Division 1, IWB-3730, requires that during reactor operation, load and temperature conditions be maintained to provide protection against failure due to the presence of postulated flaws in the ferritic portions of the reactor coolant pressure boundary. For those plants having low temperature overpressure protection (LTOP) systems, what load and temperature conditions under IWB-3730 may be used to provide protection against failure during reactor start-up and shutdown operation due to low temperature overpressure events that have been classified as Service Level A or B events?

Reply: It is the opinion of the Committee that for those plants having LTOP systems the following load and temperature conditions may be used to provide protection against failure during reactor start-up and shutdown operation due to low temperature overpressure events that have been classified as Service Level A or B events. LTOP systems shall be effective at coolant temperatures less than 200°F or at coolant temperatures[1] corresponding to a reactor vessel metal temperature[2] less than RT_{NDT} + 50°F, whichever is greater. LTOP systems shall limit the maximum pressure in the vessel to 110% of the pressure determined to satisfy Appendix G, G-2215.

[1] The coolant temperature is the reactor coolant inlet temperature.

[2] The vessel metal temperature is the temperature at a distance one-fourth of the vessel section thickness from the inside surface in the vessel beltline region. RT_{NDT} is the highest adjusted reference temperature for weld or base metal in the beltline region at a distance one-fourth of the vessel section thickness from the vessel inside surface, as determined by Regulatory Guide 1.99, Rev. 2.

Applicability

From	Through
1986 Edition with the 1987 Addenda	1992 Edition with the 1992 Addenda