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W3F1-2001-0036 A4.05 PR

April 23, 2001

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

Subject: Waterford 3 SES Docket No. 50-382 License No. NPF-38 Reporting of Licensee Event Report

Gentlemen:

Attached is Licensee Event Report (LER) 01-004-00 for Waterford Steam Electric Station Unit 3. This report involves a failure to complete the actions required by TS 3.3.1 Limiting Condition for Operation, Table 3.3-1, when one of the four Core Protection Calculator channels response time values for Reactor Coolant System Cold Leg Temperature was outside the allowable limits specified in the Technical Requirements Manual, Table 3.3-2. The response time surveillance requirement is required by Technical Specifications 4.3.1.3. This condition existed since May 25, 2000 when surveillance test requirements associated with this channel were completed. This condition is being reported pursuant to 10CFR50.73(a)(2)(i)(B), as a condition prohibited by the Technical Specifications.

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Reporting of Licensee Event Report W3F1-2001-0036 Page 2 April 23, 2001

There are no commitments contained in this submittal. Actions described herein are controlled and tracked in the Waterford 3 Corrective Action Program.

Very truly yours,

Alan J. Harris Director, Nuclear Safety Assurance

AJH/RLW/cbh Attachment

cc:

E.W. Merschoff, (NRC Region IV), N. Kalyanam, (NRC-NRR), A.L. Garibaldi, lerevents@inpo.org - INPO Records Center, J. Smith, N.S. Reynolds, NRC Resident Inspectors Office, Louisiana DEQ/Surveillance Division

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	FACILITY NAME (1)	DOCKET (2)	L	ER NUMBER (6)			PAGE (3	3)				
Waterford Stea	am Electric Station, Unit 3	05000-382	YEAR	SEQUENTIAL NUMBER	REVISION	2	OF	8				

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NARRATIVE (If more space is required, use additional copies of NRC Form 366A) (17)

### REPORTABLE OCCURRENCE

On February 21, 2001 at 1138, it was discovered that Waterford 3 was in a condition that involved a failure to complete the actions required by TS Limiting Condition for Operation (LCO) 3.3.1, Table 3.3-1, item 10 following performance of TS 4.3.1.3 required surveillance test on May 25, 2000. The total Reactor Protection System (RPS) [JC ] Core Protection Calculator (CPC) [JP-CPU] Channel D response time of 0.259 seconds for Reactor Coolant System (RCS) Cold Leg Temperature (T-Cold) exceeded the Technical Requirements Manual (TRM) Table 3.3-2 (item 10c) response time allowable limit of  $\leq$  0.258 seconds. This condition is reportable pursuant to 10CFR50.73(a)(2)(i)(B), as a condition prohibited by the plant's TS.

### INITIAL CONDITIONS

At the time this condition was identified, Waterford 3 was operating in Mode 1 at approximately 100% power. No structures, systems, or components were inoperable at the time of the occurrence that contributed to this condition.

### **EVENT DESCRIPTION**

The Plant Protection System (PPS) [JC] is comprised of an Engineered Safety Feature Actuation System (ESFAS) [JE] and a RPS. The CPC system is designed to initiate automatic protective action functions within the RPS. A CPC is installed in each of the four independent RPS channels. The CPC system consists of digital computers that utilize inputs from pressurizer pressure, reactor coolant pump speed, hot leg and cold leg temperatures, selected control element assembly (CEA) positions, CEA deviation penalty factors, and excore neutron flux signals to calculate Departure From Nucleate Boiling Ratio (DNBR) and Local Power Density (LPD). The calculated DNBR and LPD are compared to predetermined setpoints for initiation of a reactor trip signal.

On February 21, 2001 at 1138, it was discovered that Waterford 3 was in a condition that involved a failure to complete the actions required by TS LCO 3.3.1, Table 3.3-1, item 10 following

NRC FORM 366A (1-2001)	U.S. NUCLEAR REGULATORY COMMI	SSION										
LICENSEE EVENT REPORT (LER)												
	FACILITY NAME (1)	DOCKET (2)	l	LER NUMBER (6)			PAGE (3	)				
Waterford Stea	am Electric Station, Unit 3	05000-382	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3	OF	8				
			01	004	00							

NARRATIVE (If more space is required, use additional copies of NRC Form 366A) (17)

performance of TS 4.3.1.3 required surveillance test per procedure MI-003-222 on May 25, 2000. The resultant 0.259 seconds total RPS CPC Channel D response time value for RCS T-Cold exceeded the TRM Table 3.3-2 (item 10c) response time allowable limit of  $\leq$  0.258 seconds. TS 4.3.1.3, Table 3.3-1 surveillance requires at least one of four CPC channels to be tested every 18 months to demonstrate the reactor trip response time is within its allowable limit, as specified in TRM Table 3.3-2, item 10c, such that all channels are tested every 6 years. The response time surveillance procedures MI-003-222, RPS Matrix Response Time Verification, performed on May 25, 2000 and MI-003-223, CPC Response Time Verification, performed on September 24, 1995, contained acceptance criteria of < 0.120 seconds for the reactor trip switchgear undervoltage trip circuit CD matrix, and < 0.170 seconds for the CPC input parameter RCS T-Cold, respectively. The sum of the response time values specified in the surveillance test procedures equal the total RPS CPC Channel D response time for RCS T-Cold of < 0.290 seconds. This acceptance criteria exceeds the TRM Table 3.3-2 allowable limit of  $\leq$  0.258 seconds.

A formalized root cause determination was conducted per Condition Report CR-2001-0241. The investigation was concentrated in two areas, (1) surveillance test procedure development and (2) Technical Specification changes.

From December 15, 1982 through April 2, 1993, surveillance test procedure MI-003-207, Plant Protection System Bi-Stable Matrix Response Time Verification, satisfied the surveillance requirements of TS 4.3.1.3 by measuring the response times for the reactor trip switchgear matrix and the CPC channels for the RCS T-Cold input parameter. In particular, the acceptance criteria for the RPS matrix response time remained at < 0.120 seconds for the duration of this procedure. However, the CPC response times for the RCS T-Cold input parameter was changed, via MI-003-207 revision 2 on October 9, 1984, from < 0.103 to < 0.170 seconds. The procedure change approval for revision 2 did not describe a reason for the change in acceptance criteria. In 1993 surveillance test procedure MI-003-207 was superseded by two procedures, MI-003-222 and

NRC FORM 366A (1-2001)	U.S. NUCLEAR REGULATORY COM	MISSION						
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	FACILITY NAME (1)	DOCKET (2)	L	ER NUMBER (6)	PAGE (3)			
Waterford Stea	am Electric Station, Unit 3	05000-382	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	4	OF	8
			01	004	00			
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NARRATIVE (If more space is required, use additional copies of NRC Form 366A) (17)

MI-003-223, that retained the same acceptance criteria for each response time measurement.

In contrast, prior to January 16, 1987, the TS 3.3.1, Table 3.3-2 specified a CPC channel response time acceptance criteria for the RCS T-Cold input parameter of  $\leq 0.634$  seconds. This response time was an assumed time for the Cycle 1 safety analysis and deemed adequate to satisfy the acceptance criteria for the CPC DNBR-Low reactor trip during the limiting transients analyzed for Cycle 1, since plant specific measurements were not available. On January 16, 1987, the NRC approved TS Amendment 12 that revised TS 3.3.1, Table 3.3-2 RPS response times. These changes were requested and approved to ensure the response times would be consistent with the values used in the Cycle-2 safety analysis. Specifically, the CPC channel response time acceptance criteria for RCS T-Cold was revised from  $\leq 0.634$  to  $\leq 0.258$  seconds.

Historical plant records indicate that Amendment 12 was reviewed to ensure all requirements were met prior to TS implementation. However, MI-003-207 was not changed to reflect the new TS CPC channel response time acceptance criteria for RCS T-Cold.

## CAUSAL FACTORS

The root cause of the procedural inadequacy was not conclusively determined because of the age factor (1987), but the basic root cause was determined to be human performance/human error. The causal factors involved in the failure to change the surveillance test procedure to reflect the TS Amendment 12 acceptance criteria are as follows.

 Even though historical plant records indicate that Amendment 12 was reviewed by the appropriate department to ensure all requirements were met prior to TS implementation, ineffective change management resulted in existing surveillance test procedures not being revised, as required.

NRC FORM 366A U.S. NUCLEAR REGULATORY COM	MISSION	. <u></u>								
LICENSEE EVENT REPORT (LER)										
FACILITY NAME (1) Waterford Steam Electric Station, Unit 3	DOCKET (2) 05000-382	YEAR 01	LER NUMBER (6 SEQUENTIAL NUMBER 004 -	) REVISION NUMBER - 00	5	PAGE (3) OF	8			
NARRATIVE (If more space is required, use additional cop	pies of NRC Form 366	A) <b>(17)</b>								
2. Resource management was inadeq	uate in tracking	g proced	lures and ot	her licens	sing ba	asis				
documents affected by the TS chan	ge to ensure a	ll require	ements were	e met prio	or to T	S				
implementation or scheduled prior to	o entry into the	applica	ble mode.							
<ol> <li>Personnel work practices appeared approval of surveillance test proced available to verify the acceptance of TRM Table 3.3-2 maximum response</li> </ol>	to be inadequ lures MI-003-22 riteria containe se time limits.	ate durir 22 and N d in the	ng the develo /II-003-223. procedures	opment, i There w were vali	review as no dated	r, and evidend againsi	ce t the			
CORRECTIVE ACTIONS										
Immediate Actions										
Immediate Actions were taken to decla	re CPC Chann	el D (1)	high LPD Tr	ip, (2) lov	w DNE	BR Trip,	and			
(3) CPC Channel D inoperable in accor	rdance with TS	3.3.1, T	able 3.3-1 o	on Februa	ary 21	, 2001 a	at			
1500. CPC Channel D was placed in t	he bypassed c	ondition	within 1 hou	ır in acco	rdanc	e with T	S			
3.3.1 ACTION statement 2.										
The response time test of the reactor tr	rip switchgear u	undervol	tage trip circ	uit CD m	natrix,	trip patł	า #2			
was re-performed to determine the as-	found value, in	accorda	ance with su	rveillance	e test j	procedu	ire			
MI-003-222. The test results yielded a	value of 0.095	second	s, which is le	ess than	the 0.	100				

seconds value obtained in the May 25, 2000 test performance, as well as being less than the acceptance criteria specified in the procedure. This as-found value of 0.095 seconds, when added to the CPC response time value of 0.159 seconds for CPC response time Channel D, obtained on September 24, 1995, totaled a CPC response time of 0.254 seconds. The as-found 0.254 seconds CPC response time was less than the  $\leq$  0.258 seconds allowable limit specified in TRM Table 3.3-2. Based on TS LCO compliance, CPC Channel D was returned to operable status on February 22, 2001 at 1730.

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response time for RCS 1-Cold input from	n 0.258 to 0.3		is. Based	on this ar		, 1 KIVI	
Amendment 43 was approved on Februa	ary 22, 2001 1	to change	e the CPC	response	time f	or the	
RCS T-Cold input parameter from $\leq 0.25$	58 to $\leq$ 0.300	seconds.					
Long Term Actions							
Deced on ineffective change manageme	at that require	od in ovia	ting ourse	illonoo too	t proo	oduroo	not
Based on menecuve change manageme					nt our	-uures	
being revised to reflect the TS Amendme	ent 12 change	es, Enterg					;e
procedures to ensure they appropriately		e values		adie 3.3-2			
actions will be initiated in the corrective a	action prograi	m to traci	k any requ	ired proce	edural I	revisio	ns or
changes.							
				<i></i>			
Based on inadequate resource manager	ment in tracki	ng proce	dures and	other lice	nsing r	basis	
documents affected by the TS change, t	he Site Proce	edure W4	.503, Cont	trol of Cha	inges t	to the	
Operating License and Selected Licensi	ng Basis Doc	uments, v	was reviev	ved to det	ermine	e if exis	sting
guidance was adequate in tracking requ	ired documer	nt change	s prior to	TS implen	nentati	on. Th	ıe
procedure was verified to contain sufficient	ent guidance	to ensure	e procedur	es, progra	ims, ar	nd	
processes affected by the TS or TRM ch	nange are app	proved pr	ior to imple	ementatio	n or ar	e track	ced in
the Commitment Management System f	or completion	prior to e	entry into a	an applica	ble mo	de.	
Since 1987, the procedure review and a	pproval cycle	has und	ergone sig	nificant in	nprove	ment.	The
improved guidance is contained in Site F	Procedure W	2.109, Pr	ocedure E	evelopme	ent, Re	eview, a	&
Approval. The current guidance is suffic	cient to ensur	e this typ	e incident	is minimiz	ed in t	he futu	ıre.
No additional action is required.							
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FACILITY NAME (1)	DOCKET (2) LER NUMBER (6)					PAGE (3)			
Waterford Steam Electric Station, Unit 3	05000-382	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	7	OF	8		
		01	004	00					

These corrective actions have been entered, and are being tracked, in the plant's corrective action program.

# SAFETY SIGNIFICANCE

The potential impact of the CPC Channel D response time of 0.259 seconds for RCS T- Cold exceeding the Technical Requirements Manual (TRM) Table 3.3-2 (item 10c) response time allowable limit of  $\leq$  0.258 seconds was reviewed and assessed. The CPC Channel D as-found response time verified the plant was in compliance with the LCO for TS 3.3.1,Table 3.3-1, item 10 by being  $\leq$  0.258 seconds, as specified in TRM Table 3.3-2.

However, an assessment was performed for the time period since May 25, 2000 to determine the impact on plant safety. An independent analysis was performed by Westinghouse Electric Company to evaluate an increase in CPC reactor trip response time to RCS T-Cold input from 0.258 to 0.36 seconds. The analysis determined that the only limiting Chapter 15 event affected by an increase in the CPC response time up to 0.1 seconds was the Asymmetric Steam Generator Transient (ASGT). This event is a DNBR/thermal margin type event where the increase in CPC response time can result in greater thermal margin degradation due to the delayed CPC trip. The evaluation concluded that the impact of an increase in response time of up to 0.1 seconds is negligible and bounded by the existing margin penalties in place for Cycle 11. This evaluation conservatively bounds the actual increase in response time to  $\leq 0.300$  seconds made to the TRM.

Based on the as found surveillance test value, the plant was in compliance with the LCO for TS 3.3.1, Table 3.3-1 and TRM Table 3.3-2. During the time since May 25, 2000, the considerations described in the Westinghouse analysis above indicated the current licensing and design bases would have remained bounding. Therefore, this condition is not considered safety significant.

This event is not considered a safety system functional failure.

NRC FORM 366A (1-2001)

NRC FORM 366A (1-2001)	U.S. NUCLEAR REGULATORY COM	MISSION		· " .							
LICENSEE EVENT REPORT (LER)											
	FACILITY NAME (1)	DOCKET (2)	L L	ER NUMBER (6)			PAGE (3	3)			
Waterford Stea	am Electric Station, Unit 3	05000-382	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	8	OF	8			
			01	004	00						

NARRATIVE (If more space is required, use additional copies of NRC Form 366A) (17)

### SIMILAR EVENTS

Since February, 1998, there were no similar reportable events identified that involved a failure to complete actions required by TS LCO because of non-conservative surveillance test acceptance criteria to the TS/TRM maximum acceptable limits.

#### ADDITIONAL INFORMATION

Energy Industry Identification System (EIIS) codes are identified in the text within brackets [].