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Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

# DEC 1 8 1995

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

Gentlemen:

In the Matter of the Tennessee Valley Authority Docket Nos. 50-390

WATTS BAR NUCLEAR PLANT (WBN) - UNIT 1 - FACILITY OPERATING LICENSE NPF-20 - LICENSEE EVENT REPORT (LER) 50-390/95001

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The enclosed report provides details regarding the failure to implement surveillance requirements within the required time interval. Submittal of the report is in accordance with 10 CFR 50.73(a)(2)(i).

Sincerely,

D. V. Kehoe Nuclear Assurance and Licensing Manager

Enclosure cc: See page 2

200103



U.S. Nuclear Regulatory Commission Page 2 DEC 1 8 1995

cc (Enclosure): INPO Records Center Institute of Nuclear Power Operations 700 Galleria Parkway Atlanta, Georgia 30339-5957

> NRC Resident Inspector Watts Bar Nuclear Plant 1260 Nuclear Plant Road Spring City, Tennessee 37381

Mr. P. S. Tam, Senior Project Manager U.S. Nuclear Regulatory Commission One White Flint North 11555 Rockville Pike Rockville, Maryland 20852

U.S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

NRC FORM 366 (4-95) LICENSEE EVENT REPORT (LER) (See reverse for required number of digits/characters for each block)						PROVED BY OMB NO. 3150-0104 EXPIRES 04/30/88 ESTIMATED BONEN PER RESPONSE TO COMPLY WITH THIS MANDATOR INFORMATION COLLECTION REQUEST: 50.0 HRS. REPORTED LESSON LEARNED ARE INCORPORATED INTO THE LICENSING PROCESS AND FED BAC TO INDUSTRY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, ANI TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE O MANAGEMENT AND BUDGET, WASHINGTON, DC 20603.						LESSONS ED BACK MATE TO 33), U.S. 001, AND						
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starting at 0020 hours on November 16, 1995, the unit was in Mode 5. The cause for the failure to implement SR 3.9.3.1 is attributed to procedural inadequacies associated with Surveillance Instruction (SI), 1-SI-79-1, Refueling Surveillance Log. For SR 3.3.7.1, the primary cause is attributed to improper interpretation/implementation of 1-SI-0-2, Shift and Daily Surveillance Log. Corrective measures include revision of 1-SI-79-1 and 1-SI-0-2, review of SIs to ensure that SRs are appropriately implemented, and a review for proper interpretation of conditions applied to applicability statements in the Technical Specifications.

NRC FORM 366A (4-95) LICENSEE EVENT TEXT CONT	-	U.S. NUCLEAR RI	EGULATO	RY COMMISS	ION
FACILITY NAME (1)	DOCKET	LER NUMBER (6)	)	PAGE (3)	
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Watts Bar Nuclear Plant, Unit 1	05000390	95 001	00		

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

### I. PLANT CONDITIONS:

At 0020 hours (EST) on November 16, 1995, Watts Bar Unit 1 was in Mode 5 following initial fuel loading. At approximately 0315 (EST) and 0500 (EST) on November 16, 1995, licensed Operations personnel identified serveillances required to be performed on a 12 hour basis during Mode 6 were not performed or were not performed within the specified time interval.

# **II. DESCRIPTION OF EVENT**

## A. Event

#### 1. Failure to implement SR 3.9.3.1:

SR 3.9.3.1, requires that a channel check of the Source Range Neutron Flux Monitors be performed every 12 hours while in Mode 6. Surveillance Instruction (SI) 1-SI-79-1 is performed to implement SR 3.9.3.1 and was initiated on November 9, 1995, in support of initial fuel load. The SI was performed, as required, up to 2300 hours on November 14, 1995. Performance of the SI was next required at 1100 hours on November 15, 1995. The SI was not performed at 1100 hours by the Unit Operator (UO), a licensed Reactor Operator. The UO interpreted 1-SI-79-1 to be required only during core alterations. At the time this occurred, the UO considered core alterations to be complete. In addition, the UO's understanding was that 1-SI-79-1 was to be performed only once more to support the lifting of the reactor head for initial placement on the vessel. This understanding was based on verbal instructions provided by the Assistant Shift Operations Supervisor (ASOS), a licensed Senior Reactor Operator. Implementation of 1-SI-79-1 was reinitiated at 1520 hours on November 15, 1995, in support of the lifting of the head. Subsequent to this, the ASOS reviewed the data sheets which documented the previous performances of 1-SI-79-1. The ASOS noted that the Source Range channel check should have been performed by 1100 hours to fulfill SR 3.9.3.1.

## 2. Failure to implement SR 3.3.7.1

Based on the previously described event associated with SR 3.9.3.1, the ASOS initiated a review of 1-SI-0-2, Shift and Daily Surveillance Log, to ensure all required surveillances had been performed. On November 16, 1995, at 0500 hours (EST), the ASOS identified that SR 3.3.7.1 had not been performed from November 10, 1995 to November 16, 1995. SR 3.3.7.1 requires that a channel check of the Control Room Radiation Monitor be performed every 12 hours. This SR is implemented as Step 8 on Appendix G of 1-SI-0-2. During this time period, Step 8 was marked as "not applicable" by the Unit Operators (UOs). The basis for marking the step as being not applicable was that Footnote 26 on Appendix G of the SI

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	2. Failure to implement SR 3.3.7.1 (continu	ued)										
	implied that the SR was only required du Since the principal operation in process irradiated fuel to not be involved. The s for initial loading of the core, and startin in Mode 5.	was the initial lo tatus of the plar	ading ont during	of the core, g this time	the UOs of period wa	cons as M	idered ode 6					
	Incident Investigation (II) W-95-020 was init Action Program.	iated to docume	ent both	events in	the TVA (	Corre	ective					
B.	Inoperable Structures, Components, or System	ems that Contril	but <u>ed to</u>	o the <u>Event</u>								
	There were no structures, components, or s contributed to the event.	ystems inoperab	ble at th	e start of t	he event t	that						
c.	Dates and Approximate Times of Major Occurrences											
	1. Dates and times associated with failure t	to implement SR	<u>1 3.9.3.</u>	1								
I	November 9, 1995, approximately 1700 start of the initial loading of the core.	hours (EST) - 1	-SI-79-	1 was initia	ated based	ł on	the					
	November 10, 1995, 0345 hours (EST)	- Entered Mode	6 durin	g initial fue	l loading.							
l	November 9, 1995, through November 1 meet the 12 hour interval. SR consisten 1995.											
	November 15, 1995, 1100 hours (EST) 12 hour interval.	- SR 3.9.3.1 sho	ould hav	ve been per	rformed to	) me	et the					
· ·	November 15, 1995, 1520 hours (EST) - placement of the vessel head.	- 1-SI-79-1 perfo	ormed i	n support d	of the initia	al						
	November 16, 1995, 0020 hours (EST)	- Unit entered M	lode 5.									
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NRC FORM 366A		J.S. NUC	EAR REGULAT	ORY	COMMIS	SSION
LICENSEE EVEN	T REPORT (L	ER)				
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C Dates and Approximate Times of Major Oco	urranaaa (Contin	(hou)				
C. <u>Dates and Approximate Times of Major Occ</u>	urrences (Contin	uea)				
November 16, 1995, at 0315 hours (ES					en	
performed within the required interval.	Action initiated t	o address the e	vent in the 1	٠VA		
corrective action program.						
2. Dates and times associated with failure	to implement SR	<u>3.3.7.1</u>				
	<b>F</b>	<b></b>				
November 10, 1995, 0345 hours (EST)	- Entered Mode	6 during initial 1	uel loading.			
November 10, 1995 through November	16, 1995 - 1-SI-	0-2 performed.	Data sheet	step	for	
performance of SR 3.3.7.1 marked as b	eing not applicab	le.				
November 16, 1995, 0020 hours (FCT)		<b>.</b>				
November 16, 1995, 0020 hours (EST)	- Unit entered M	ode 5.				
November 16, 1995, 0500 hours (EST)	- ASOS identifie	d that SR 3.3.7	.1 had not b	een		
performed from November 10, 1995 to	November 16, 1	995. Action ini	tiated to add	lress	the	
event in the TVA corrective action progr	am.					
D. <u>Other Systems or Secondary Functions Affe</u>	cted					
No other systems or secondary functions we	ere affected by t	nis event.				
					,	
E. <u>Method of Discovery</u>						
For SR 3.9.3.1, the ASOS performed a revie 1-SI-79-1. Based on this review, the ASOS	w the data shee	ts completed fo	r performan	ce of	اس ا	
have been performed by 1100 hours to fulfil	I SR 3.9.3.1. Th	ne performance	of the SR di	d oci	na cur	
on November 16, 1995, at 1520 hours in pr	eparation for the	initial placeme	nt of the ves	sel h	ead.	
Based on the review performed for SR 3.9.3	.1, the ASOS ini	tiated a review	of 1-SI-0-2,	Shift	and	
Daily Surveillance Log, to ensure all required November 16, 1995, at 0500 hours (EST), t	surveillances ha	d been perform ed that SR 3 3	ed. On 7 1 bad not	hoor		
performed from November 10, 1995 to Nove	ember 16, 1995.			Deel	I	

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NRC FORM 366A (4-95)

#### U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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FACILITY NAME (1)	DOCKET	LER NUMBER (6) PAGE (3)
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Watts Bar Nuclear Plant, Unit 1	05000390	95 001 00

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# F. Operator Actions

The actions taken by Operations personnel related to this event are discussed in Section V, Corrective Actions, Item 1, Immediate Corrective Actions.

## G. Automatic and manual safety system responses

There were no automatic or manual safety system responses and none were necessary.

# **III. CAUSE OF EVENT**

## A. Immediate Cause

The immediate cause of this event was the failure to perform surveillance requirements established for Mode 6.

# B. <u>Root Cause</u>

## 1. Failure to implement SR 3.9.3.1

The root cause for the failure to implement SR 3.9.3.1 was the result of an error in an approved procedure, 1-SI-79-1. The method in which the procedure was written allowed for it to be interpreted that it was only required to be performed in Mode 6, while core alterations were in process. The interpretation was based on Section 1.1, Purpose, of 1-SI-79-1.

## 2. Failure to implement SR 3.3.7.1

The root cause for the failure to implement SR 3.3.7.1 was the result of an error in an approved procedure, 1-SI-O-2. The method in which the procedure was written allowed for it to be interpreted that it was only required to be performed in Mode 6, during the movement of irradiated fuel. The interpretation was based on Footnote 26 in Appendix G of 1-SI-O-2.

# IV. ANALYSIS OF EVENT - ASSESSMENT OF SAFETY CONSEQUENCES

# A. <u>General</u>

There were no failures that rendered a train or a safety system inoperable. Based on this, there were no safety implications to the public related to the event. Since the plant had not been critical at the time of the missed surveillance, the safety significance associated with not performing SR 3.9.3.1 and SR 3.3.7.1 is insignificant.

	LICENSEE EVENT TEXT CONT FACILITY NAME (1)	INUATION <b>DOCKET</b> 05000	ER) LER NUMBER YEAR SEQUENTIAL NUMBER	(6) REVISION	PAG 6 01	<del>ie (3)</del> F 8			
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ALYS	IS OF EVENT - ASSESSMENT OF SAFETY	CONSEQUENC	ES (Continued)						
Fai	lure to implement SR 3.9.3.1			,	•				
per exc cou shu per wa Op	formances of the SR went for 16 hours ar ceeded the 1.25 times the required interval unt rate was in service, the source range h utdown margin calculation was being perfor formed that would have decreased the shu is not performed. Although the surveillance erations personnel had other reliable indica	nd 20 minutes of allowed by SR igh flux at shut ormed every 12 utdown margin e interval was o	on November 15, 3.0.2. During th down alarm was of hours. No activit during the time th exceeded by 1 hou	1995. Thi is time, the perable, a ies were b e channel ur and 20 i	s e audibl and the eing check minutes	s,			
Failure to implement SR 3.3.7.1									
Con for the env alte or the	ntrol Room Emergency Ventilation System performing the surveillance of the CREVS control Room during accident recovery an vironment. The radiation monitor actuation erations, is the primary means to ensure co waste gas decay tank rupture accident. D plant was in Mode 6, and since this was	(CREVS) to be is to ensure the nd post accident of the CREVS pontrol room hab uring the time t the initial core I	performed every e Operations perso t operations are k in Modes 5 and 6 itability in the eve he surveillance wa	2 hours. onnel statio ept in a ha , during co nt of a fue as not perf	The ba oned in ibitable ore el handli formed,	ing			
RREC	TIVE ACTIONS								
<u>Imr</u>	mediate Corrective Actions								
1.	Failure to implement SR 3.9.3.1								
	performances of 1-SI-79-1, it was noted been performed by 1100 hours on Nove	d that the Sourd ember 15, 1999 ement the SR in is identified aften ned during Mod	ce Range channel 5, to fulfill SR 3.9, n the TVA correcti er the plant had er e 6. The surveilla	check sho 3.1. Action ve action intered Moo ince of the	on was progran le 5. Source	n.			
	per exc cou shu per wa Op shu Fai Ter Co for the env alto or the mo	<ul> <li>performances of the SR went for 16 hours are exceeded the 1.25 times the required interval count rate was in service, the source range his shutdown margin calculation was being performed that would have decreased the shuwas not performed. Although the surveillance Operations personnel had other reliable indicates shutdown margin.</li> <li>Failure to implement SR 3.3.7.1</li> <li>Technical Specification surveillance requiremed Control Room Emergency Ventilation System for performing the surveillance of the CREVS the Control Room during accident recovery are environment. The radiation monitor actuation alterations, is the primary means to ensure cor or waste gas decay tank rupture accident. D the plant was in Mode 6, and since this was moved, and no radioactive gases had been primered and no radioactive gases had been primary means to the part was in Mode 6, and since this was moved and no radioactive gases had been primeriate to implement SR 3.9.3.1</li> <li>Failure to implement SR 3.9.3.1</li> </ul>	<ul> <li>performances of the SR went for 16 hours and 20 minutes of exceeded the 1.25 times the required interval allowed by SR count rate was in service, the source range high flux at shut shutdown margin calculation was being performed every 12 performed that would have decreased the shutdown margin was not performed. Although the surveillance interval was of Operations personnel had other reliable indications that would shutdown margin.</li> <li>Failure to implement SR 3.3.7.1</li> <li>Technical Specification surveillance requirement SR 3.3.7.1</li> <li>Control Room Emergency Ventilation System (CREVS) to be for performing the surveillance of the CREVS is to ensure the the Control Room during accident recovery and post accident environment. The radiation monitor actuation of the CREVS alterations, is the primary means to ensure control room hab or waste gas decay tank rupture accident. During the time t the plant was in Mode 6, and since this was the initial core I moved, and no radioactive gases had been produced.</li> <li>PRRECTIVE ACTIONS</li> <li>Immediate Corrective Actions</li> <li><b>1.</b> Failure to implement SR 3.9.3.1</li> <li>Based on the ASOS's review of the data sheets which performances of 1-SI-79-1, it was noted that the Sourbeen performed by 1100 hours on November 15, 1999 initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR initiated to document the failure to implement the SR ini</li></ul>	<ul> <li>performances of the SR went for 16 hours and 20 minutes on November 15, exceeded the 1.25 times the required interval allowed by SR 3.0.2. During thi count rate was in service, the source range high flux at shutdown alarm was of shutdown margin calculation was being performed every 12 hours. No activiti performed that would have decreased the shutdown margin during the time th was not performed. Although the surveillance interval was exceeded by 1 hou Operations personnel had other reliable indications that would have warned the shutdown margin.</li> <li>Failure to implement SR 3.3.7.1</li> <li>Technical Specification surveillance requirement SR 3.3.7.1 requires a channel Control Room Emergency Ventilation System (CREVS) to be performed every 1 for performing the surveillance of the CREVS is to ensure the Operations person during accident recovery and post accident operations are k environment. The radiation monitor actuation of the CREVS in Modes 5 and 6 alterations, is the primary means to ensure control room habitability in the eve or waste gas decay tank rupture accident. During the time the surveillance was the plant was in Mode 6, and since this was the initial core load, no irradiated moved, and no radioactive gases had been produced.</li> <li>Failure to implement SR 3.9.3.1</li> <li>Based on the ASOS's review of the data sheets which documented the performances of 1-SI-79-1, it was noted that the Source Range channel been performed by 1100 hours on November 15, 1995, to fulfill SR 3.9. initiated to document the failure to implement the SI in the TVA correction of the CREVS in the TVA correction of the CREVS in the TVA correction to the performation of the corrective Actions initiated to document the failure to implement the SI in the TVA correction to the performate the surveillance was the plant was in Mode 6.</li> </ul>	<ul> <li>performances of the SR went for 16 hours and 20 minutes on November 15, 1995. Thi exceeded the 1.25 times the required interval allowed by SR 3.0.2. During this time, th count rate was in service, the source range high flux at shutdown alarm was operable, a shutdown margin calculation was being performed every 12 hours. No activities were b performed that would have decreased the shutdown margin during the time the channel was not performed. Although the surveillance interval was exceeded by 1 hour and 20 Operations personnel had other reliable indications that would have warned them of a de shutdown margin.</li> <li>Failure to implement SR 3.3.7.1</li> <li>Technical Specification surveillance requirement SR 3.3.7.1 requires a channel check of Control Room Emergency Ventilation System (CREVS) to be performed every 12 hours. for performing the surveillance of the CREVS is to ensure the Operations personnel stati the Control Room during accident recovery and post accident operations are kept in a ha environment. The radiation monitor actuation of the CREVS in Modes 5 and 6, during c alterations, is the primary means to ensure control room habitability in the event of a fue or waste gas decay tank rupture accident. During the time the surveillance was not perf the plant was in Mode 6, and since this was the initial core load, no irradiated fuel was I moved, and no radioactive gases had been produced.</li> <li>Failure to implement SR 3.9.3.1</li> <li>Based on the ASOS's review of the data sheets which documented the previous performances of 1-SI-79-1, it was noted that the Source Range channel check sho been performed by 1100 hours on November 15, 1995, to fulfill SR 3.9.3.1. Acti initiated to document the failure to implement the SR in the TVA corrective action</li> </ul>	Failure to implement SR 3.3.7.1         Failure to implement SR 3.3.7.1 requires a channel check of the Control Room Emergency Ventilation System (CREVS) to be performed every 12 hours. The ba for performing the surveillance of the CREVS is to ensure the Operations personnel stationed in the Control Room during accident recovery and post accident operations are kept in a habitable environment. The radiation monitor actuation of the CREVS in Modes 5 and 6, during core alterations, is the primary means to ensure control room habitability in the event of a fuel handli or waste gas decay tank rupture accident. During the time the surveillance was not performed, the plant was in Mode 6, and since this was the initial core load, no irradiated fuel was being moved, and no radioactive gases had been produced.         RRECTIVE ACTIONS         Immediate Corrective Actions         1. Failure to implement SR 3.9.3.1         Based on the ASOS's review of the data sheets which documented the previous performances of 1-SI-79-1, it was noted that the Source Range channel check should hav been performed by 1100 hours on November 15, 1995, to fulfill SR 3.9.3.1. Action was initiated to document the failure to implement the SR in the TVA corrective action program			

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V. CORRECTIVE ACTIONS (continued)										
2. Failure to implement SR 3.3.7.1										
Upon identification that SR 3.3.7.1	•									
entered. The operability of the Ma		diation Monit	or wa	s verified	and the					
action exited on November 16, 19	95, at 0500 nours.									
					•					
B. <u>Corrective Actions to Prevent Recurrenc</u>	<u>e</u>	÷.,								
1 Revise 1-SI-79-1 Refueling Surveilla	1. Revise 1-SI-79-1, Refueling Surveillance Log, and/or 1-SI-0-2, Shift and Daily Surve									
-	to ensure proper implementation of Surveillance Requirement (SR) 3.9.3.1 (Source Range									
Monitor channel check) and SR 3.3.	•				•					
Completion Date: December 31, 19	95									
2. For Surveillance Instructions (SIs) with	hich implement seve	eral SRs in on	e instr	uction n	erform a					
review to ensure that SRs are approp	-			•						
the SIs clearly communicate the acti	ons to be performed	I by the Oper	ator.	Completi	on Date:					
December 31, 1995										
3. Using SB 3.3.7.1 as an example (co	nditional statements	in the applic	ahilitv	statomo	nte of the					
	<ol> <li>Using SR 3.3.7.1 as an example (conditional statements in the applicability statements).</li> <li>Technical Specifications), review the Technical Specifications to identify similar type</li> </ol>									
conditional statements that may be s	subject to interpreta	tion. Ensure	impler	nenting p						
address the correct meaning of the T	echnical Specificati	ons. Comple	tion D	ate:						
December 31, 1995										
4. Perform a review of the procedure cl	nange forms (PCFs)	initiated base	d on 1	the perfo	rmance of					
the Surveillance Matrix review. For	the PCFs which ider	ntify the need	to cla	arify or in	itially					
incorporate the implementation of an										
correct and clearly stated such that a December 31, 1995	a misinterpretation s	hould not oc	cur. C	Completio	on Date:					
5. Revise the Site Writers Manual to de										
statements of site procedures approp	priately define, if rec	uired, the op	eratio	nal mode	and/or					
any conditional requirements establis the Technical Requirements Manual,	thed by documents	such as the T	echni	cal Speci	fications,					

6. Issue a memorandum to the procedure writers appraising them of II-W-95-020 and alerting them to the need to ensure changes to procedures are written and added to appropriate sections of procedures such that users clearly understand the purpose, scope, applicability and actions required by the revised procedure. Date Completed: December 11, 1995

Report. Completion Date: December 31, 1995

NRC FORM	366A				U.S. NUCLEAR REGULATORY COMMISSIO			
(4-95)			LICENSEE EVENT	REPORT (L	ER)			
			TEXT CON1		<b>n</b>			
			FACILITY NAME (1)	DOCKET	LER NUMBER (6) PAGE (3)			
				05000	YEAR SEQUENTIAL REVISION NUMBER 8 OF 8			
Watts	Bar N	uclea	r Plant, Unit 1	05000390	95 001 00			
TEXT (If m	ore spa	ce is re	equired, use additional copies of NRC Form 366A)	(17)				
VI.	ADI	וסודוכ						
	Α.	<u>Failed</u>	Components					
		1. <u>S</u> a	afety Train Inoperability					
		TI	here were no failures that rendered a tra	ain or a safety s	system inoperable.			
		2. <u>C</u>	omponent/System Failure Information					
		a.	. Method of Discovery of Each Compo	nent or System	Failure:			
	There were no component failures involved.							
		b.	. Failure Mode, Mechanism, and Effect	of Each Failed	Component:			
	There were no component failures involved.							
		C.	Root Cause of Failure:					
			There were no component failures in	volved.				
	d. For Failed Components With Multiple Functions, List of Systems or Secondary Functions Affected:							
			There were no component failures inv	volved.				
		e.	Manufacturer and Model Number of I	Each Failed Com	nponent:			
			There were no component failures in	volved.				
	В.	<u>Previc</u>	ous Similar Events					
			atts Bar Nuclear Plant, no events similation of the similation of the second se		described in this report have been			
VII.	CO	иміті	MENTS					
			ns committed to be implemented in resp e Actions.	ponse to this ev	vent are tabulated in Section V,			

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