RI - DNMS Licensee Event Report Disposition

•	License	e: TVA					_				
Ev	ent Descriptio	on: Stuck Shutter									
License No: 16-25243-01 Docket No:				0303312	MLE	R-RI:	2011-014				
Event Date: 07/12/11 Report Date:				07/13/11	HQ	Ops Event #:					
1.	REPORTI	NG REQUIREMEN	Г					_			
	10 CFR 20.1906 Package Contamination					,	10 CFR 3	30.50 Report			
	10 CFR 20.2201 Theft or Loss						10 CFR 35.3045 Medical Event				
	10 CFR 20.2203 30 Day Report						License Condition				
	Othe										
2.	REGION I RESPONSE										
	Imm		Inspector/Date	_							
	Special Inspection				Inspector/Date						
	Tele	phone Inquiry	г	Inspector/Date							
	Preliminary Notification/Report Information Entered in RI Log						Daily Report				
					Review at I			ext Inspection			
	Repo	=									
3.	REPORT	EVALUATION	_	/							
	Description of Event				Corrective Actions						
	Levels of RAM Involved				Calculations Adequate						
	Cause of Event				Additional Information Requested from Licensee						
4.	MANAGE	MENT DIRECTIVE	B.3 EVALUATION						•		
	Rele	ase w/Exposure > L		Deliberate Misuse w/Exposure > Limits							
	Repe	Repeated Inadequate Control			Pkging Failure>10 rads/hr or Contamination>1000x Limits						
	Exposure 5x Limits				Large# Indivs w/Exp>Limits or Medical Deterministic Effects						
	Potential Fatality				Unique Circumstances or Safeguards Concerns						
	,	iny of the above are	involved:								
		sidered Need for IIT			Considered Nee	d for	AIT				
		cision/Made By/Dat	_								
5.	MANAGEN	MENT DIRECTIVE 8	3.10 EVALUATION	(addi	tional evaluation	for r	nedical events	only)			
		liness - Inspection I	-	-	-	se / 10	days for und	erdose)			
Medical Consultant Used-Name of Consultant/Date of Report:											
Medical Consultant Determined Event Directly Contributed to Fatality											
		Device Failure with Possible Adverse Generic Implications									
		or Contractor Suppo		luate (Consequences						
6.	7),	INSTRUCTIONS OF	1 01	<u> </u>)			1 dular	1 2400-5-41/20		
	LPIM		cket file.	$-\!$	ZENIEW O	χ_	regic s	chedule	1 Mysecowy		
™ Non-Pu			spector Signature:	(-	ywou.			Date:	8/17/11		
¥ Public-	SUNSI REVIEW	COMPLETE B	anch Chief Initials:	: -	BK. C. R.		-07 FOR	Date:	8/17/2011		
Location of	of File: G:\Re	eference\Blank Forn	ns Word\LER FOR	M.wpc	d				Rev. 02/25/05		

A. TOP

Power Reactor Event Number: 47045

Facility: SEQUOYAH
Region: 2 State: TN
Unit: [1] [2] []
RX Type: [1] W-4-LP, [2] W-4-LP
NRC Notified By: MATT LEENERTS
Notification Date: 07/13/2011
Event Date: 07/13/2011
Event Time: 00:23 [EDT]
Last Update Date: 07/13/2011

HQ OPS Officer: CHARLES TEAL

Emergency Class: NON EMERGENCY Person (Organization): 10 CFR Section: SCOTT FREEMAN (R2DO)

50.72(b)(2)(xi) - OFFSITE NOTIFICATION

UnitSCRAM CodeRX CRITInitial PWR Initial RX Mode Current PWRCurrent RX Mode

1 N Y 100Power Operation 85 Power Operation 2 N Y 100Power Operation 85 Power Operation

Event Text

OVERFLOW OF CONDENSER CIRCULATING WATER

"At 0023 on 07/13/2011, a notification to an outside state agency, Tennessee Department of Environment and Conservation (TDEC), was made due to an overflow of Condenser Circulating Water from the northwest corner of the diffuser pond through a heavily vegetated area into a slough adjacent to the Sequoyah Training Center. Condenser Circulating Water is also discharging to the river via storm water outfall 14 near the cooling towers as well as the normal diffuser pond discharge at outfall 101.

"At approximately 1545 on 07/12/2011, one of the two diffuser gates at Sequoyah failed and shut off the west diffuser pipe. The other diffuser remained open throughout the event. Plant personnel made several attempts to raise the diffuser gate utilizing divers and cranes. When it was determined the crane could not lift the diffuser gate, both units reduced power to 85% and one (1) Condenser Circulating Water pump for each unit, two (2) pumps total, were removed from service. Diffuser pond level is currently lowering."

The NRC Resident Inspector has been informed.

₹ TOP

Non-Agreement State Event Number: 47046

Rep Org: PARADISE FOSSIL PLANT
Licensee: TENNESSEE VALLEY AUTHORITY
Region: 1
City: DRAKESBORO State: KY
County:

Notification Date: 07/13/2011
Event Date: 07/12/2011
Event Time: 13:30 [CDT]
Last Update Date: 07/13/2011

License #: 16-25243-01

Docket: 030-3312 NRC Notified By: KEVIN CASEY

HQ OPS Officer: JOHN SHOEMAKER

Emergency Class: NON EMERGENCY Person (Organization): 10 CFR Section: JAMES DWYER (R1DO) 30.50(b)(2) - SAFETY EQUIPMENT FAILURESCOTT FREEMAN (R2DO)

ROBERT LEWIS (FSME)

Event Text

Agreement: Y

MOISTURE DENSITY GAUGE SHUTTER STUCK IN THE CLOSED POSITION

Tennessee Valley Authority Paradise Fossil Plant uses an Ohmart Model SR1-A density gauge with a sealed source containing up to 1,562 milliCuries of Cesium 137. The gauge is used to monitor the density of the limestone slurry at the Unit 2 scrubber. On July 12, 2011 at 1330 (CDT) the shutter on the density gauge was determined to be not operable. It was determined that the shutter failed in the closed position when the operator received a slurry density high alarm.

The shutter failure is in the closed and safe position. The gauge has been entered into the corrective action program and will be repaired by the manufacturer at a later time. There were no personnel exposures, no damages to other equipment, and no additional compensatory actions necessary since the shutter is failed closed/safe position.

The licensee notified the R2DO (Freeman).

A TOP

Fuel Cycle Facility Event Number: 47047

Facility: GLOBAL NUCLEAR FUEL - AMERICASNotification Date: 07/13/2011
RX Type: URANIUM FUEL FABRICATION Notification Time: 17:12 [ET]
Comments: LEU CONVERSION (UF6 TO UO2)Event Date: 07/12/2011
LEU FABRICATION Event Time: 17:30 [EDT]

LWR COMMERICAL FUEL Last Update Date: 07/13/2011

Region: 2

City: WILMINGTON State: NC County: NEW HANOVER License #: SNM-1097

Agreement: Y Docket: 07001113

NRC Notified By: PHILLIP OLLIS HQ OPS Officer: JOE O'HARA

Emergency Class: NON EMERGENCY Person (Organization): 10 CFR Section: SCOTT FREEMAN (R2DO) 70.50(b)(2) - SAFETY EQUIPMENT FAILURE MERAJ RAHIMI (NMSS)

Event Text

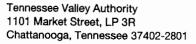
INAUDIBLE CRITICALITY WARNING SIREN

"At approximately 1730 on 7/12/2011, a regularly scheduled test of the inside Criticality Warning System (CWS) covering the Fuel Manufacturing Operation (FMO) was conducted. It was discovered that a CWS warning horn in the ChemMet lab was determined to be inaudible. Compensatory measures were immediately implemented. All other horns of the inside CWS in all other areas were functional and clearly audible. The affected area will remain shut down pending an investigation and implementation of additional corrective actions. The event is being reported within 24 hours pursuant to 10CFR70.50(b)(2) as a safety equipment failure. A CWS warning horn in the ChemMet lab was determined to be inaudible. All other CWS warning horns operating correctly. Investigation results pending. Affected area access was restricted. The faulty CWS horn has been replaced and tested."

The licensee notified Region 2(Coovert) and will notify the state radiation protection agency and New Hanover Emergency Management.

Page Last Reviewed/Updated Thursday, July 14, 2011

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R. M. Krich Vice President Nuclear Licensing

August 12, 2011

10 CFR 30.50(c)(2)

ATTN: Document Control Desk, Director, Office of Federal and State Materials and Environmental Management Programs U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001

> Material License No. 16-25243-01 NRC Docket No. 030-33122

Subject:

Submittal of Report in Accordance with 10 CFR 30.50(c)(2) for Material License No. 16-25243-01

In accordance with 10 CFR 30.50(c)(2), the Tennessee Valley Authority (TVA) is submitting the following report regarding an event in which equipment failed to function as designed. This event was verbally reported to the Nuclear Regulatory Commission (NRC) on July 12, 2011 under Event Notification Number 47046. Enclosed is NRC Form 361A, used to document the initial notification. The failed equipment is licensed under Material License No. 16-25243-01 and used at TVA's Paradise Fossil Plant, located in Drakesboro, Kentucky.

Description of Incident

On July 12, 2011 at 1330 (CDT), plant staff determined that the shutter on the density gauge for the Unit 2 scrubber had failed in the closed position. Based on a high-high density alarm and normal recirculation pump amperage indication associated with the limestone slurry system, the control room operator requested the density gauge be investigated and repaired. The gauge, located on the Unit 2 scrubber, is used to monitor the limestone slurry being added to the scrubber. The Radiation Safety Officer (RSO) traveled to Paradise Fossil Plant on July 13, 2011 and determined the density gauge shutter had failed in the closed position. The density gauge is located outside in an area subject to spray from the limestone slurry, which is acidic. The RSO

REGION 1

NRC FORM 361	Α				U.S. NUCLE	AR REGU	LATORY COM	MISSION	LICENSE NUMBER		
	16-25243-01										
REPORT TIME		NAME OF CALLER			CALL BACK TELEPHONE NO.						
1425 TVA - Paradise Fossil Plant					Kevin Casey			(423) 751-8523			
EVENT TIME EVENT DATE LOCATION OF EVENT (Include County					and State)		PORTION OF PL	ANT AFFE	ETED		
1330 CDT	07/12/2011	Paradise I	Fossil Plant,	Drakesb	boro, Kentucky Unit 2 Scrubber						
EVENT CLAS	SSIFICATIONS	EVENT TYPES			INCIDENT REPORT			EPORTS	(30.50, 40.60, 70.50)		
GENERAL E	MERGENCY *	FUEL C	CYCLE	Į,	20.2201	LOSS / TI	HEFT	(a)	PROTECTIVE ACTION PREVENTED		
SITE AREA EMERGENCY		MEDICAL / ACADEMIC		20.2202	02 ACTUAL / THREATENED OVEREXPOSURE		(p)(UNPLANNED CONTAMINATION			
ALERT		TRANSPORTATION			20.2202	ACTUAL /	THREATENED	X (b)(2	2) SAFETY EQUIPMENT FAILURE		
NOTIFICATION UNUSUAL E	ON OF EVENT *	WASTE MANAGEMENT		r I	21.21	DEEECT /		(b)(3	MEDICAL TREATMENT WITH CONTAMINATION		
INCIDENT R	REPORT	INDUSTRIAL / COMMERCIAL		RCIAL	26.719	719 FITNESS FOR DUTY		(b)(4) FIRE / EXPLOSION		
TRANSPOR	TATION EVENT	FOREIGN EVENT			35.3045	35.3045 MEDICAL EVENT			2 CRITICALITY / SNM LOST		
INFORMATIO	ON ONLY	OTHER (Specify)			36.83	36.83 IRRADIATOR EVENT			2 ACTUAL/ATTEMPTED THEFT		
OTHER (Spe	ecify)				39.77	39.77 RUPTURED WELL LOGGING SOURCE			TICALITY CONTROL 4-HOUR		
					39.77	IDDETDIEVADI E WELL		CRI	TICALITY CONTROL 24-HOUR		
					40.26			,	LLETIN 91-01) IER NON-CFR REQUIREMENT		
* ONLY UNDER OL		VES NO WILL							Complete below		
NOTIFICATIONS				[:	ANYTHING UNUSUAL OR NOT UNDERSTOOD?			6 (Explain below)			
NRC REGION?					DID ALL SYSTEMS FUNCTION AS REQUIRED?						
STATE?									YES NO (Explain below)		
LOCAL? OTHER GOVERNMENT					ADDITIONAL INFORMATION ON PAGE 2?						
AGENCIES? PRESS RELEASE?									YES		
TRESS RELEASE	<u> </u>				TON PAGE 2:			X NO			
TVA's Paradise Fossil Plant uses an Ohmart Model SR-1A density guage with a sealed source containing up to 1562 millicuries of Cesium-137. The gauge is used to monitor the density of the limestone slurry in the Paradise Fossil Plant Unit 2 scrubber. On July 12, 2011, at 1330 CDT, the shutter on the density guage was determined to be not operable. The shutter failed in the closed position. The shutter failure discovery was made when the operators received a slurry density high alarm on July 12, 2011. The issue is being entered into the Corrective Action Program. No personnel radiation exposure was received. The source is shuttered and in a safe condition.											
A twenty-four hour event notification is required per 10 CFR 30.50(b)(2) due to failure of the density gauge shutter. Event Number - 47046 NRC Operations Officer - John Shoemaker Fax Number 301-816-5151 Notified NRC Region II Duty Officer Scott Freeman											

PAGE 2 OF 2

RADIO	LOGICAL / CHE	MICAL RELEAS	ES: CHECK OR FIL	L IN APPLIC	ABLE ITEMS			
ISOTOPE ACTIVITY	PHYSICAL FORM	CHEMICAL FORM		STACK	LIQUID EFFLUENT	OTHER		
			MONITOR READING					
			ALARM SETPOINT			A-1-1		
pages and	<u> </u>		WILL EXPOSURE	CONTABBIN	ATION DATA			
ONGOING RELEASE	ANUMBED OF BED			CONTAMINATION DATA NUMBER OF PERSONNEL CONTAMINATED:				
TERMINATED RELEASE		SONNEL EXPOSED:		MAXIMUM EXTERNAL LEVEL:				
OFFSITE RELEASE	MAXIMUM EXTER			MAXIMUM INTERNAL LEVEL:				
ONSITE AREAS EVACUATED OFFSITE PROTECTIVE ACTION RECOMMENDED	CRITICAL ORGAN			CIRITIAL ORGAN (if known):				
		<u> </u>	S FOR ACCIDENT	SCENARIO(S) (BULLETIN 91-01)				
	ALL BUT SINGLE CONTROLS LOST	DEFICIENT		SIGNIFICANCE				
NUMBER AND TYPES OF CONTROLS		ANALYSIS R NORMAL OPERA		WN	PRESENT OR REA	DILT AVAILABLE		
NUMBER AND TYPES OF CONTROLS	S WHICH FUNCTIONE	D PROPERLY UND	ER UPSET CONDITIONS					
NUMBER AND TYPES OF CONTROLS	S NECESSARY TO RE	STORE A SAFE SIT	TUATION					
SAFETY SIGNIFICANCE OF EVENTS						1.		
SAFETY EQUIPMENT STATUS	1	AND MARKET STORY OF THE PARTY O						
Notation of the last of the la								
STATUS OF CORRECTIVE ACTIONS								
		EVENT DESC	RIPTION (Continued)					
			•					
NRC FORM 361A (8-2010)				· · · · · · · · · · · · · · · · · · ·				