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On January 8, 1987 Chemistry section personnel determ samples being taken from the condenser offgas pretrea were not representative samples of the main condenser failed solenoid valve which admitted instrument air blocked the offgas flow to the sample point. Per system design the solenoid purge valve, ASCO mode is a three-way valve which can be positioned to admit condenser offgas to the sample panel or allow room a the system for purging. An instrument air line was purge inlet side of the valve. The purge valve fail admitting instrument air into the sample line. The the air overcame and blocked the flow of offgas. The connection was determined to be an unapproved connect be ascertained when this connection was made.	atment sa r's offga into the el number t the flo ir to be connected ed in mid 100 psig e instrum tion. It	mple stath s due to a panel and C8320A43, w of drawn into l to the l-position pressure o pent air li could not	on f ne	
The instrument air line was disconnected from the pur The purge inlet port of the valve was capped to preve offgas into the room. These actions provided for the of the sample panel. Representative samples obtained concentration to be less than 4 percent. The valve capped until the valve is demonstrated functional or from the General Manager was sent to department mana situation. The letter reiterated the seriousness of alterations. B702170537 B70206 PDR ADOCK 05000416	ent the f e immedia d verifie purge inl replaced gers conc	eakage of ite availab ed the hydr et will re I. A lette cerning the	oility ogen main er	

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			YEAR SEQUENTIAL REVISION				
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Α.	REPORTABLE OCCURRENCE						
	On January 8, 1987 Chemistry samples being taken from the were not representative sam failed solenoid valve which blocked the offgas flow to	e condenser offgas pr ples of the main cond admitted instrument	etreatment sample sta lenser's offgas due to	ation o a			
В.	INITIAL CONDITIONS						
	The plant was operating in was discovered. The plant first refueling outage.	mode 1 at 18 percent was undergoing restar	power when the situat t following the unit	tion 's			
с.	DESCRIPTION OF OCCURRENCE						
	On January 6, 1986 the plan refueling outage. Plant co of moisture to collect in t (GG-1WF-AE-NO12A and GG-1WF analyzers were declared ino Technical Specification 3.3 offgas treatment system to are collected at least once hours for hydrogen concentre	nditions during start he offgas system hydr -AE-N012B). On Janua perable pending purg .7.12 allows operatio continue for up to 30 per 4 hours and ana	tup caused an abnormatogen analyzers ary 7 at 0900 the hydr ing of the collected wo on of the main condens days provided grab	l amount rogen water. ser samples			
	The first hydrogen sample w and flow were noted when al flow. On January 8 at 1023 obtained for an isotopic an determined that the sample the sample was not represen notified Control Room opera lineup was correct.	l samples were obtain offgas samples from alysis to evaluate for vials were lacking ac tative of condenser of	ned indicating proper the same point were uel performance. Che ctivity and concluded offgas. Chemistry per	sample emists that rsonnel			
	While the investigation con aligning the post treatment charcoal beds. This sample results showed that the hyd Specification limit of 4 pe	: sample panel to sam was obtained at 1520 progen concentration w	ple the offgas prior 0 on January 8, 1987.	to the The			
	At approximately 2000 on Ja sample/purge solenoid valve instrument air connected to through the panel and block was isolated from the panel the pretreatment panel at 2 hydrogen concentration to b	e (GG-1WF-SMV-F002) w b the purge inlet side the flow of offgas. and a representative 2250 on January 8 which	hich allowed higher p e of the valve to flo The instrument air e sample was obtained ch also confirmed the	ressure w supply from			

NRC Form 366A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				ATORY COMMISSION	
	LICENSEE EVENT REPORT (LER/ TEXT CONTINUATION			APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88		
FACILITY NAME (1)		DOCKET NUMBER (2)		3ER (6)	PAGE (3)	
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The hydrogen analyzers were restored to service on January 10 at 1200. The total outage time for the hydrogen analyzers was 75 hours. The elapsed time for obtaining a representative sample from the initial time of analyzer inoperability was 30.3 hours.

D. APPARENT CAUSE

Grand Gulf Nuclear Station - Unit 1

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

Per system design the purge valve, ASCO model number C8320A43, is a three-way valve which can be positioned to admit the flow of condenser offgas to the sample panel or allow room air to be drawn into the system for purging. The instrument air line connected to the purge inlet side of the valve as discussed above was determined to be an unapproved connection. Further investigations revealed that the installation of the air line connection gave the appearance of being permanent and was reported to have been in use for several years. This investigation could not conclude when the installation was first installed. The valve failed in mid-position and admitted instrument air into the line. The 100 psig pressure of the air overcame and blocked the flow of offgas.

E. SUPPLEMENTAL CORRECTIVE ACTION

The instrument air line was disconnected from the purge valve and capped. The purge inlet port of the valve was capped to prevent the leakage of offgas into the room. These actions provided for the immediate availability of the sample panel. The valve purge inlet will remain capped until the valve is demonstrated functional or replaced. A letter from the General Manager was sent to department managers concerning this situation. The letter reiterated the seriousness of unauthorized alterations and the presence of plant procedures that provide the means for approving and tracking both temporary and permanent system alterations.

F. SAFETY ASSESSMENT

The 4 percent limit for hydrogen concentration in the condenser offgas system is set to prevent a buildup of a potentially explosive mixture that could result in a release of radioactive materials to the environment.

Normal operation of the steam jet air ejectors prevents process steam from attaining a flammable concentration of hydrogen. In the event that the steam flow falls below the specified value, redundant flow instruments are capable of automatically isolating the system to prevent a buildup of hydrogen in the system. Also, catalytic recombiners reduce the explosive potential of the gas mixture by converting the hydrogen and oxygen to water. Inoperability of the hydrogen analyzers disables the hydrogen monitoring alarms and recorders, but does not affect the hydrogen concentration or the equipment that reduces the hydrogen concentration. Due to the equipment operability, it is concluded that the hydrogen concentration limits were not exceeded and the danger of an explosive mixture did not exist.



OLIVER D. KINGSLEY, JR. Vice President Nuclear Operations

February 6, 1987

U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Attention: Document Control Desk

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station Unit 1 Docket No. 50-416 License No. NPF-29 Unapproved Air Connection and Failed Valve Causes Invalid Condenser Offgas Samples LER 87-001-0 AECM-87/0029

Attached is Licensee Event Report (LER) 87-001-0 which is a final report.

Yours/truly,

ODK:bms Attachment

Mr. T. H. Cloninger (w/a) cc: Mr. R. B. McGehee (w/a) Mr. N. S. Reynolds (w/a) Mr. H. L. Thomas (w/o) Mr. R. C. Butcher (w/a)

> Dr. J. Nelson Grace, Regional Administrator (w/a) U. S. Nuclear Regulatory Commission Region II 101 Marietta St., N. W., Suite 2900 Atlanta, Georgia 30323

P O BOX 23070 JACKSON, MISSISSIPPI 39225-3070 (601) 960-9600 A Middle South Utilities Company