

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Wolf Creek Generating Station										DOCKET NUMBER (2) 0 5 0 0 0 4 8 2				PAGE (3) 1 OF 0 3									
TITLE (4) ESF Actuation - Reactor Trip, Auxiliary Feed Actuation, Feedwater Isolation																							
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)													
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES				DOCKET NUMBER(S)										
0	7	0	9	8	5	0	4	9	0	1	0	9	0	4	8	5	0	5	0	0	0		
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																					
1		20.402(b)				20.405(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)									
POWER LEVEL (10)		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)									
0		20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
		20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)													
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)													
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)													
LICENSEE CONTACT FOR THIS LER (12)																							
NAME Merlin G. Williams - Superintendent of Regulatory, Quality and Administrative Services										TELEPHONE NUMBER													
										AREA CODE													
										3 1 1 6 3 1 6 1 4 1 - 1 8 1 8 1 3 1 1													
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC													
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO											

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On July 9, 1985, at approximately 1115 CDT, a Reactor Trip, Main Turbine Trip, Feedwater Isolation, Auxiliary Feedwater Actuation, and Steam Generator Blowdown and Sample Isolation occurred due to low-low water level in Steam Generator "C". A Turbine-driven Auxiliary Feedwater Actuation occurred when water level in Steam Generator "A" also reached the low-low level setpoint.

Prior to this event, the plant was in Mode 1, Power Operation, at a Reactor power level of approximately forty-seven percent. During Power Ascension Testing, feedwater flow to the "C" Steam Generator began decreasing rapidly, resulting in the steam generator water level reaching the low-low level setpoint for Engineered Safety Features Actuation.

Subsequent investigations determined that the loss of feedwater flow was the result of installation and removal of test equipment in the feedwater control circuit cabinets. All required Engineered Safety Features and Reactor Protection System equipment performed their intended safety function, and the actuated systems were restored to normal at approximately 1230 CDT.

To prevent future occurrences of this type, personnel have been cautioned about the effects of installing and removing testing equipment.

There was no damage to plant equipment or release of radioactivity as a result of this event, and at no time did conditions develop that may have posed a threat to the health and safety of the public.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)  Wolf Creek Generating Station	DOCKET NUMBER (2)  0 5 0 0 0 4 8 2 8 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
			0 4 9	0 1	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 365A's) (17)

On July 9, 1985, at approximately 1115 CDT, an Engineered Safety Features Actuation and a Reactor Trip occurred due to low-low water level in Steam Generator (S/G)[AB-SG]"C".

Prior to this event, the plant was in Mode 1, Power Operation. Power Ascension Testing was in progress in accordance with SU7-008.2, "Power Coefficient Determination", which involves ramping the Main Turbine [TA-TRB] load down forty megawatts, allowing conditions to stabilize, and then ramping the Main Turbine load back up forty megawatts at five percent per minute. The ramp down was completed successfully, and the plant was stable at forty-seven percent reactor power, with the S/G's being maintained at a level of approximately fifty percent by the Main Feedwater Control Valves [SJ-FCV], which were in automatic control.

As the ramp back up was attempted, feedwater flow fluctuations occurred on all four Steam Generators. The operators took manual control of the Main Feedwater Control Valves for steam generators "A", "B", and "C", but water level in S/G "C" continued to decrease and reached the low-low level setpoint for Engineered Safety Features Actuation. This resulted in a Reactor Trip, Main Turbine Trip, motor-driven Auxiliary Feedwater Actuation, Steam Generator Blowdown and Sample Isolation and a Feedwater Isolation. Shortly thereafter, S/G "A" water level reached the low-low level setpoint, initiating a Turbine-driven Auxiliary Feedwater Actuation.

All required Engineered Safety Features and Reactor Protection System equipment responded properly with the exception of the Intermediate Range Nuclear Instrumentation [IG] channel SE-NI-35B, which would not allow Permissive P-6 to energize the Source Range Nuclear Instruments following the trip. The Source Range Nuclear Instruments had to be manually energized.

During this event, pressurizer [AB-PZR] level decreased to approximately sixteen percent, and the Reactor Coolant System [AB] average temperature reached a minimum of 538 degrees Fahrenheit. Levels in all four Steam Generators reached the low-low level setpoint during this event. The actuated systems were restored to normal configuration per plant procedures, and normal feedwater flow was restored at approximately 1230 CDT.

An investigation into this event determined that the initial feedwater flow fluctuations in all S/G's were the result of a personnel activity in installing and removing test recorders in the feedwater control circuits. The test leads being utilized had also created a "short", resulting in a loss of program level signal to the controller for Main Feedwater Control Valve "C" which caused a loss of feedwater to that S/G. This scenario has been reenacted with an identical loss of program level signals, although no ESF actuations occurred due to plant conditions at the time. Circuit cards which were exposed to the test signals have been replaced.

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TEXT (If more space is required, use additional NRC Form 365A's) (17)

The problems experienced with the intermediate range nuclear instrumentation channel SE-NI-35B were investigated by Instrumentation and Control (I&C) personnel and found to be the result of dirty connectors. These connectors were cleaned, and SE-NI-35B has been returned to operable status.

This event is considered to be a unique situation, caused by the installation and removal of test equipment. The importance of being aware of the consequences of installing and removing test equipment will be stressed to I&C personnel, and further emphasis will be placed on this event by incorporation of this report into I&C Required Reading.

There was no damage to plant equipment or release of radioactivity as a result of this event, and at no time did conditions develop that may have posed a threat to the health or safety of the public.



KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER  
VICE PRESIDENT - NUCLEAR

September 4, 1985

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

Mr. R.P. Denise, Director  
Division of Reactor Safety and Projects  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

KMLNRC 85-213  
Re: Docket No. STN 50-482  
Subj: Licensee Event Report 85-049-01

Gentlemen:

The enclosed Licensee Event Report is submitted pursuant to 10 CFR  
50.73 (a) (2) (iv) concerning an Engineered Safety Features  
actuation.

Yours very truly,

Glenn L. Koester  
Vice President - Nuclear

GLK:see

Enclosure

xc: PO'Connor (2), w/a  
JCummins, w/a

IE22  
1/1