

WOLF CREEK GENERATING STATION

MONTHLY OPERATING REPORT

MONTH: October YEAR: 1985

Docket No.: STN 50-482

Facility Operating License No.: NPF-42

Report No. 8

Submitted by:

Kansas Gas and Electric Company

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The following report highlights the operating experience of Wolf Creek Generating Station for the month of October, 1985. This report is being provided pursuant to Technical Specification 6.9.1.8.

I. SUMMARY OF OPERATING EXPERIENCE

Two unplanned unit shutdowns occurred during the month of October. The first shutdown was a manual reactor trip on October 7 due to Circulating Water System problems. A strong wind blew an excess of plant material towards the Circulating Water System intake structure. A failure of system instrumentation prevented early detection of a developing problem, and the result was a buildup of plant material on the screens, reduced Circulating Water flow, and ultimately causing screen damage and the collapse of one screen. During this event, the diesel fire pump was also damaged. The damaged screens were repaired, and the unit was started on October 10. During this startup, a second unit trip occurred due to Steam Generator level swings while increasing unit load. The unit was restarted successfully, and operated at a reduced power until repairs were completed on the collapsed screen on October 26.

II. MAJOR SAFETY RELATED MAINTENANCE ACTIVITIES

The major safety related maintenance activity performed during the month of October was the reassembly and testing of the Positive Displacement Charging Pump. The pump exhibited signs of excessive leakage, and further repairs are currently in progress.

III. CHANGES, TESTS, AND EXPERIMENTS

The following is a brief description of safety evaluations performed pursuant to 10 CFR 50.59 on changes, tests, and experiments during the month of October.

1. Temporary Modification 85-SE-98 - Originated to allow test flange downstream of valve BG-V-526, Seal Water Injection Filters Inlet Drain Valve, located in Centrifugal Charging Pump Room "B", to remain installed and to allow the use of Swagelock fittings in place of a permanently installed blind flange. The Swagelock fittings have a higher pressure rating than the blind flange. No unreviewed safety or environmental questions are generated as a result of this temporary change.
2. Temporary Modification 85-SE-100 - Originated to establish a temporary flowpath from the recycle evaporator concentrates discharge to the spent fuel pool to allow boration evolutions of the spent fuel pool while the transfer canal is dry and isolated from the spent fuel pool by the spent fuel pool gate. The flow path was established so as to minimize any potential siphoning effects and is to be removed prior to placement of any spent fuel within the spent fuel pool. No unreviewed safety or environmental questions are generated as a result of this temporary change.

3. Temporary Modification 85-SE-94 - Originated to allow the installation of a non-safety related gasket in a pump in the Boron Recycle System. The replacement gasket satisfies the pump requirements, and is to be used until it can be qualified or a qualified replacement is obtained. Integrity of leak tightness will be achieved by the use of this gasket. No unreviewed safety or environmental questions are generated as a result of this temporary change.
4. Temporary Modification 85-SE-102 - Addition of piping to the plant heating system to allow on-line addition of corrosion inhibitors to the system. No unreviewed safety or environmental questions are generated as a result of this temporary change.
5. Safety Evaluation 85-SE-103 - Originated to allow plant operation with a differential temperature across the condenser of 38 degrees Fahrenheit until an inoperable circulating water pump could be returned to service. This increase does not affect the functional capabilities of the Essential Service Water System. This situation poses no environmental concerns due to the maximum discharge temperature allowed and the season in question, early fall. No unreviewed safety or environmental questions are generated as a result of this temporary change.
6. Temporary Modification 85-SE-104 - Installation of temporary pump skids for temporary fire pumps due to the permanent diesel fire pump being inoperable. No unreviewed safety or environmental questions are generated as a result of this temporary change.
7. Safety Evaluation 85-SE-105 - Modification of the Nuclear Steam Supply System and Balance of Plant computer data bases to set the allowed deviation between shutdown bank and shutdown rod position to the expected deviation of 96 when any shutdown bank is between 18 and 210 steps (transition range). This change will avoid nuisance alarm conditions during normal plant transitions. No unreviewed safety or environmental questions are generated as a result of this change.
8. Engineering Evaluation Request 85-GK-11 - Originated to allow the use of a different model hydramotor actuator on valve GK-V-766 in the Control Building Heating, Ventilation, and Air Conditioning System in place of an inoperable actuator. This valve controls the Essential Service Water cooling water flow to the Control Room Air Conditioning Unit, SGK04B. Both models are qualified environmentally and seismically for safety related applications outside containment. This change was made permanent by the approval of Plant Modification Request 01388. No unreviewed safety or environmental questions are generated as a result of this change.

9. Plant Modification Request 01195 - Originated to route concentrated sulfuric acid addition piping direct to the high Total Dissolved Solids Collector Tanks (THF01A&B) through Alloy 20 piping and components. This change mitigates extensive Secondary Waste System corrosion damage to 316L S.S. components and piping. No unreviewed safety or environmental questions are generated as a result of this change.
10. Plant Modification Request 01307 - Originated in response to the identification of electrical separation violations in the Reactor Building. Due to practical limitations of the specific raceway configurations, exposed non-class 1E cables which exit Terminal Boxes TB25101 and TB 25102 and various class 1E raceway and electrical equipment in the immediate area do not meet separation criteria. The failure analysis on the subject circuits concluded that the installation is acceptable to use-as-is. There exists no unreviewed safety or environmental questions in the present configuration.
11. Plant Modification Request 01333 - In order to facilitate total draindown of the dip tanks (SHD01A, B and SHD02A, B) and the turbulator (SHD03), in the Decontamination System, check valves in the drain lines were removed, vent valves were added and vent piping was altered. No unreviewed safety or environmental questions were generated as a result of this change.

OPERATING DATA REPORT

DOCKET NO. SIN 50-482
WOLF CREEK GENERATING STATION
KANSAS GAS AND ELECTRIC COMPANY
DATE 11-01-85
COMPLETED BY M. Williams
TELEPHONE 316-364-8831

OPERATING STATUS

1. Reporting Period:	<u>October, 1985</u>	Gross Hours in Reporting Period:	<u>745</u>
2. Currently Authorized Power Level (MWt):	<u>3411</u>	Max. Depend. Capacity (MWe-Net):	<u>1128</u>
Design Electrical Rating (MWe-Net):	<u>1170</u>		
3. Power Level to Which Restricted (If Any) (MWe-Net):	<u>N/A</u>		
4. Reasons for restriction (If Any):	<u>N/A</u>		
		This Month	Yr to Date
5. Number of Hours Reactor was Critical		<u>675.3</u>	<u>1326.3</u>
6. Reactor Reserve Shutdown Hours		<u>69.7</u>	<u>78.7</u>
7. Hours Generator on Line		<u>665.9</u>	<u>1307.6</u>
8. Unit Reserve Shutdown Hours		<u>19.0</u>	<u>19.0</u>
9. Gross Thermal Energy Generated (MWH)		<u>2,086,772</u>	<u>4,139,795</u>
10. Gross Electrical Energy Generated (MWH)		<u>716,052</u>	<u>1,416,889</u>
11. Net Electrical Energy Generated (MWH)		<u>683,791</u>	<u>1,354,242</u>
12. Reactor Service Factor		<u>90.6</u>	<u>93.7</u>
13. Reactor Availability Factor		<u>100.0</u>	<u>99.2</u>
14. Unit Service Factor		<u>89.4</u>	<u>92.4</u>
15. Unit Availability Factor		<u>91.9</u>	<u>93.7</u>
16. Unit Capacity Factor (Using MDC)		<u>81.4</u>	<u>84.8</u>
17. Unit Capacity Factor (Using Design MWe)		<u>78.4</u>	<u>81.7</u>
18. Unit Forced Outage Rate		<u>10.6</u>	<u>7.6</u>
19. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each):	<u>None</u>		
20. If Shut Down at End of Report Period, Estimated Date of Startup:	<u>N/A</u>		
21. Units in test Status (Prior to Commercial Operation):	Forecast	Achieved	
Initial Criticality	<u>5-22-85</u>	<u>5-22-85</u>	
Initial Electricity	<u>6-13-85</u>	<u>6-12-85</u>	
Commercial Operation	<u>9-09-85</u>	<u>9-03-85</u>	

UNIT SHUTDOWN AND POWER REDUCTIONS

DOCKET NO. STN 50-482
 WOLF CREEK GENERATING STATION
 KANSAS GAS AND ELECTRIC COMPANY
 DATE 11-01-85
 COMPLETED BY M. Williams
 TELEPHONE 316-364-8831

REPORT MONTH October, 1985

No	Date	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHODS SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
20	851007	F	60.0	H	2	Unit was manually tripped due to reduced circulating water flow caused by a buildup of plant material on the circulating water traveling screens. (Licensee Event Report 85-069-00).
21	851010	F	19.0	G	3	Unit trip due to Steam Generator level swings while increasing unit power. (Licensee Event Report 85-072-00)

SUMMARY: On October 7, unit load was reduced due to excessive plant material accumulation at the Circulating Water System intake screens. The unit was manually tripped shortly thereafter due to reduced Circulating Water flow. A second trip occurred during startup after this outage. The unit was restarted successfully on October 10 and operated at a reduced power for part of October due to repairs being made to one Circulating Water System bay.

(1) REASON: A: EQUIPMENT FAILURE (EXPLAIN) E: OPERATOR TRAINING AND LICENSE EXAMINATION (2) METHOD: 1. MANUAL
 B: MAINTENANCE OR TEST F: ADMINISTRATIVE 2. MANUAL SCRAM
 C: REFUELING G: OPERATIONAL ERROR (EXPLAIN) 3. AUTOMATIC SCRAM
 D: REGULATORY RESTRICTION H: OTHER (EXPLAIN) 4. OTHER (EXPLAIN)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. STN 50-482
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 KANSAS GAS AND ELECTRIC COMPANY
 DATE 11-01-85
 COMPLETED BY M. Williams
 TELEPHONE 316-364-8831

MONTH October, 1985

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	1125
2	1132
3	1095
4	913
5	1134
6	1138
7	646
8	0
9	0
10	16
11	564
12	1008
13	1007
14	1013
15	1001
16	1009

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	1016
18	1022
19	1035
20	1037
21	1033
22	1036
23	940
24	939
25	1028
26	1054
27	1124
28	1120
29	1118
30	1119
31	1121

KANSAS GAS AND ELECTRIC COMPANY

WOLF CREEK GENERATING STATION

UNIT NO. 1

MONTH October, 1985

SUMMARY OF OPERATING EXPERIENCE

Listed below in chronological sequence is a summary of operating experiences for this month which required load reduction or resulted in significant non-load related incidents.

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>
October 1, 1985	0000	Unit in Mode 1 and synchronized to the grid.
October 7, 1985	1240	Commenced manual power reduction due to Circulating Water screen trouble due to build-up of plant material resulting in increased differential pressure across the screens.
	1355	Manually tripped the unit due to reduced Circulating Water system flow. Entered Mode 3. Reportable per 10 CFR 50.72 and 50.73.
October 9, 1985	1019	Received Control Room Ventilation Isolation Signal due to a momentary low voltage condition in a Control Room radiation monitor, caused by a lightning strike. Reportable per 10 CFR 50.72 and 50.73.
	1942	Commenced reactor startup. Entered Mode 2.
October 10, 1985	0059	Entered Mode 1.
	0156	Synchronized to the grid.
	0224	Turbine trip and Reactor trip occurred due to Steam Generator level swings while increasing unit load. Entered Mode 3. Reportable per 10 CFR 50.72 and 50.73.
	1732	Commenced reactor startup. Entered Mode 2.
	1958	Entered Mode 1.
	2127	Synchronized to the grid. Power limited to approximately 90% for repair to a circulating water intake screen and to replace heater drain pump "A" seals.
October 26, 1985	1945	Repair to circulating water intake screen complete. Commenced ramping power to 100%.



KANSAS GAS AND ELECTRIC COMPANY

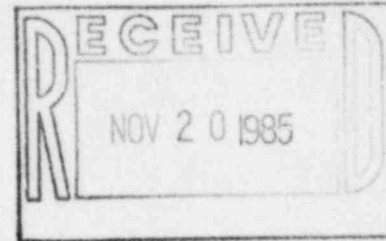
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GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

November 15, 1985

Director, Office of Resource Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. E.H. Johnson, Acting Director
Division of Reactor Safety and Projects
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011



KMLNRC 85-254
Re: Docket No. STN 50-482
Subj: October, 1985 Monthly Operating Report

Gentlemen:

Enclosed is the October, 1985 Monthly Operating Report for Wolf Creek Generating Station. This submittal is being made in accordance with the requirements of Technical Specification 6.9.1.8.

Yours very truly,

Glenn L. Koester

Glenn L. Koester
Vice President, Nuclear

GLK:see

Enclosure

cc: PO'Connor (2), w/a
JTaylor (12), w/a
JCummins, w/a

85-1054

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