

WOLF CREEK GENERATING STATION

MONTHLY OPERATING REPORT

MONTH: August YEAR: 1985

Docket No.: STN 50-482

Facility Operating License No.: NPF-42

Report No. 6

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 August, 1985. This report is being provided pursuant to Technical Specification 6.9.1.8.

I. SUMMARY OF OPERATING EXPERIENCE

During the month of August, implementation of the Power Ascension Testing Program was completed. A Large Load Reduction Test from 100% Reactor power was completed successfully without a Reactor trip. The Nuclear Steam Supply System's performance run at 100% power was completed on August 28, and the unit was then tripped from 100% power, thus completing the final test of the Power Ascension Testing Program. Preparations are in progress to declare the unit ready for commercial operation.

II. MAJOR SAFETY RELATED MAINTENANCE ACTIVITIES

The major safety-related maintenance activities during the month of August include the rebuild of Centrifugal Charging Pump "A" to replace a damaged shaft, repair of a pin hole leak in the flange material of an RTD bypass flow orifice manifold, replacement of unqualified terminal blocks on the Main Feedwater Isolation Valves and the Main Steamline Isolation Valves, and change out of the position indicator switches on the pressurizer safety valves.

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 August.

1. Temporary Modification 85-SE-79 - Installation of a temporary plywood door to support temporary duct work in the doorway to the Electro-Hydraulic Control Cabinet room in the Turbine Building. The plywood will be fire-retardant and the appropriate fire watches will be established. No unreviewed safety or environmental questions are generated as a result of this temporary change.
2. Temporary Modification 85-SE-80 - Relocation of the weather radio in the Control Room to the west wall to facilitate radio reception until an outside antenna for the radio is installed and connected. No unreviewed safety or environmental questions are generated as a result of this temporary change.
3. Temporary Modification 85-SE-81 - Installation of a three-quarter inch carbon steel 3000# socket welded union in a drain line from BM-V-052, Steam Generator Blowdown Flash Tank relief valve. No unreviewed safety or environmental questions are generated as a result of this temporary change.
4. Temporary Modification 85-SE-83 - Installation of scaffolding in the Auxiliary Building to facilitate cleaning and insulating Essential Service Water system piping. The scaffolding will not be tied to, or directly over, any safety-related equipment, and will be inspected prior to commencing work. No unreviewed safety or environmental questions are generated as a result of this temporary change.

5. Temporary Modification 85-SE-84 - Installation of scaffolding in the Auxiliary Building to facilitate cleaning and insulating Essential Service Water system piping. No unreviewed safety or environmental questions are generated as a result of this temporary change.
6. Temporary Modification 85-SE-85 - Installation of scaffolding in the Auxiliary Building to facilitate cleaning and insulating Essential Service Water system piping. No unreviewed safety or environmental questions are generated as a result of this temporary change.
7. Temporary Modification 85-SE-86 - Installation of temporary blank flanges in place of the tube side relief valve, BM-V-701, on the Steam Generator Blowdown Regenerative Heat Exchanger. Overpressure protection will be provided by BM-V-702. No unreviewed safety or environmental questions are generated as a result of this temporary change.
8. Temporary Modification 85-SE-87 - Installation of scaffolding in containment on elevation 2026' to facilitate repair of feedwater check valve AE-V-122. No unreviewed safety or environmental questions are generated as a result of this temporary change.
9. Temporary Modification 85-SE-88 - Allow the replacement of bonnet bolts on valves AE-V-0006, suction isolation valve for Main Feedwater Pump "B", and AE-V-0009, suction isolation valve for Main Feedwater Pump "A", with bolts designed to allow sealant application. No unreviewed safety or environmental questions are generated as a result of this temporary change.
10. Temporary Modification 85-SE-89 - Replacement of broken U-bolt on hanger AD06-H015/432, supporting the suction line to Main Feedwater Pump "B", with a surplus U-bolt from hanger AD06-H014/431. No unreviewed safety or environmental questions are generated as a result of this temporary change.
11. Temporary Modification 85-SE-90 - Allow the use of a rupture disc on the Hydrogen Recombiner in the Gaseous Radwaste System that does not have the proper pricing documentation on the Purchase Order. No unreviewed safety or environmental questions are generated as a result of this temporary change.
12. Temporary Modification 85-SE-91 - Installation of a temporary pressure gauge to replace a failed accumulator pressure transmitter on a Main Steamline Isolation Valve. The failed transmitter functioned only for Control Room indication, and the temporary gauge will serve the same purpose, only with local indication. No unreviewed safety or environmental questions are generated as a result of this temporary change.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. STN 50-482
WOLF CREEK GENERATING STATION
KANSAS GAS AND ELECTRIC COMPANY
DATE 9-01-85
COMPLETED BY M. Williams
TELEPHONE 316-364-8831

MONTH August, 1985

| | DAY AVERAGE DAILY POWER LEVEL (MWe-Net) |
|----|--|
| 1 | <u>52</u> |
| 2 | <u>234</u> |
| 3 | <u>239</u> |
| 4 | <u>677</u> |
| 5 | <u>987</u> |
| 6 | <u>1012</u> |
| 7 | <u>285</u> |
| 8 | <u>904</u> |
| 9 | <u>1131</u> |
| 10 | <u>1135</u> |
| 11 | <u>1133</u> |
| 12 | <u>1062</u> |
| 13 | <u>547</u> |
| 14 | <u>512</u> |
| 15 | <u>597</u> |
| 16 | <u>631</u> |

| | DAY AVERAGE DAILY POWER LEVEL (MWe-Net) |
|----|--|
| 17 | <u>628</u> |
| 18 | <u>620</u> |
| 19 | <u>632</u> |
| 20 | <u>736</u> |
| 21 | <u>1102</u> |
| 22 | <u>1110</u> |
| 23 | <u>1126</u> |
| 24 | <u>1123</u> |
| 25 | <u>1123</u> |
| 26 | <u>1122</u> |
| 27 | <u>1067</u> |
| 28 | <u>240</u> |
| 29 | <u>0</u> |
| 30 | <u>0</u> |
| 31 | <u>0</u> |

INSTRUCTIONS:

On this form, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

These figures will be used to plot a graph for each reporting month. Note that when maximum dependable capacity is used for the net electrical rating of the unit, there may be occasions when the daily average power level exceeds the 100% line (or the restricted power level line). In such cases, the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

OPERATING DATA REPORT

DOCKET NO. STN 50-482
WOLF CREEK GENERATING STATION
KANSAS GAS AND ELECTRIC COMPANY
DATE 9-01-85
COMPLETED BY M. Williams
TELEPHONE 316-364-8831

OPERATING STATUS

1. Reporting Period: August, 1985 Gross Hours in Reporting Period: 744
2. Currently Authorized Power Level (MWt): 3411 Max. Depend. Capacity (MWe-Net): 1117
Design Electrical Rating (MWe-Net): 1170
3. Power Level to Which Restricted (If Any) (MWe-Net): N/A
4. Reasons for restriction (If Any): N/A

| | This Month | Yr to Date | Cumulative |
|---|------------------|------------------|------------------|
| 5. Number of Hours Reactor was Critical | <u>628.2</u> | <u>1294.0</u> | <u>1294.0</u> |
| 6. Reactor Reserve Shutdown Hours | <u>15.6</u> | <u>15.6</u> | <u>15.6</u> |
| 7. Hours Generator on Line | <u>619.6</u> | <u>938.4</u> | <u>938.4</u> |
| 8. Unit Reserve Shutdown Hours | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 9. Gross Thermal Energy Generated (MWH) | <u>1,643,803</u> | <u>3,026,259</u> | <u>3,026,259</u> |
| 10. Gross Electrical Energy Generated (MWH) | <u>552,790</u> | <u>966,117</u> | <u>966,117</u> |
| 11. Net Electrical Energy Generated (MWH) | <u>524,014</u> | <u>899,905</u> | <u>899,905</u> |
| 12. Reactor Service Factor | <u>N/A</u> | | |
| 13. Reactor Availability Factor | <u>N/A</u> | | |
| 14. Unit Service Factor | <u>N/A</u> | | |
| 15. Unit Availability Factor | <u>N/A</u> | | |
| 16. Unit Capacity Factor (Using MDC) | <u>N/A</u> | | |
| 17. Unit Capacity Factor (Using Design MWe) | <u>N/A</u> | | |
| 18. Unit Forced Outage Rate | <u>N/A</u> | | |

19. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each): None
20. If Shut Down at End of Report Period, Estimated Date of Startup: 9-01-85
21. Units in test Status (Prior to Commercial Operation):

| | |
|----------------------|----------------|
| Forecast | Achieved |
| Initial Criticality | <u>5-22-85</u> |
| Initial Electricity | <u>6-13-85</u> |
| Commercial Operation | <u>9-09-85</u> |

UNIT SHUTDOWN AND POWER REDUCTIONS

DOCKET NO. STN 50-482
 WOLF CREEK GENERATING STATION
 KANSAS GAS AND ELECTRIC COMPANY
 DATE 9-01-85
 COMPLETED BY M. Williams
 TELEPHONE 316-364-8831

REPORT MONTH August, 1985

| No | Date | TYPE F: FORCED S: SCHEDULED | DURATION (HOURS) | REASON (1) | METHODS SHUTTING DOWN THE REACTOR OR REDUCING POWER(2) | CORRECTIVE ACTIONS/COMMENTS |
|----|--------|-----------------------------------|---------------------|---------------|--|---|
| 12 | 850801 | F | 18.1 | A | 3 | Unit has been shutdown since July 31, 1985, due to Nuclear Instrument Channel failure while testing a second channel. (Licensee Event Report 85-058). |
| 13 | 850807 | F | 15.6 | A | 3 | Turbine/Reactor trip occurred due to Hi-Hi level in Moisture Separator Reheater drain tank. (Licensee Event Report 85-060). |
| 14 | 850812 | F | 0.0 | A | 4 | While at full power, high vibration on Main Feed Pump "B" forced power reduction. Full power was reached on August 21, 1985. |
| 15 | 850827 | S | 0.0 | B | 4 | A 50% load reduction test from full power was initiated per the Power Ascension Testing Program. |
| 16 | 850828 | S | 90.8 | B | 4 | Full power trip was initiated per Power Ascension Testing. Unit was shutdown at end of month. |

SUMMARY: Reactor achieved full power for the first time on August 8, at 1612 hours. Various Power Ascension Tests were performed at high power levels which culminated in a scheduled reactor trip from full power. All tests required for commercial operation status have been satisfied.

(1) REASON: A: EQUIPMENT FAILURE (EXPLAIN)
 B: MAINTENANCE OR TEST
 C: REFUELING
 D: REGULATORY RESTRICTION

E: OPERATOR TRAINING AND LICENSE EXAMINATION
 F: ADMINISTRATIVE
 G: OPERATIONAL ERROR (EXPLAIN)
 H: OTHER (EXPLAIN)

(2) METHOD: 1. MANUAL
 2. MANUAL SCRAM
 3. AUTOMATIC SCRAM
 4. OTHER (EXPLAIN)

KANSAS GAS AND ELECTRIC COMPANY

WOLF CREEK GENERATING STATION

UNIT NO. 1

MONTH August, 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> |
|-----------------|-------------|---|
| August 1, 1985 | 0000 | Plant in Mode 3. |
| | 1118 | Commenced Reactor startup. Entered Mode 2. |
| | 1440 | Entered Mode 1. |
| | 1805 | Synchronized to the grid. |
| August 6, 1985 | 2144 | Received Control Room Ventilation Isolation Signal (CRVIS) due to a voltage spike on a Control Room radiation monitor due to a lightning strike. Reportable per 10 CFR 50.72 and 50.73. |
| August 7, 1985 | 0626 | Reactor trip due to Turbine trip due to high-high level in Moisture Separator Reheater. Entered Mode 3. Reportable per 10 CFR 50.72 and 50.73. |
| | 1828 | Commenced Reactor startup. Entered Mode 2. |
| | 2020 | Entered Mode 1. |
| | 2200 | Synchronized to the grid. |
| August 8, 1985 | 1612 | Unit initially reached 100 percent power. |
| August 12, 1985 | 2015 | Reduced load due to Main Feedwater Pump "B" vibration. |
| August 21, 1985 | 2241 | Unit returned to 100 percent power. |
| August 27, 1985 | 1747 | Completed Large Load Reduction test from 100% Reactor power. Reactor stable at 50% power. |
| August 28, 1985 | 0016 | Commenced returning Reactor power to 100%. |
| | 0512 | Tripped the Reactor from 100% power in accordance with the Power Ascension Testing Program. Entered Mode 3. |



KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

September 11, 1985

Director, Office of Resource Management
U.S. Nuclear Regulatory Commission
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 85-217

Re: Docket No. STN 50-482

Subj: August, 1985 Monthly Operating Report

Dear Mr. Martins:

Enclosed is the August, 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
Vice President, Nuclear

GLK:see

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

DESIGNATED ORIGINAL
Certified By *MR Beebe* 11/13/85

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