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March 13, 2000

SVP-00-059

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Quad Cities Nuclear Power Station, Units 1 and 2  
Facility Operating License Nos. DPR-29 and DPR-30  
NRC Docket Nos. 50-254 and 50-265

Subject: Monthly Operating Report

In accordance with Generic Letter 97-02 and Technical Specification 6.9.5, "Monthly Operating Reports," we are submitting the Monthly Operating Report for Quad Cities Nuclear Power Station, Units 1 and 2. This report covers the period of February 1 to February 29, 2000.

Should you have any questions concerning this letter, please contact Mr. C.C. Peterson at (309) 654-2241, extension 3609.

Respectfully,

A handwritten signature in cursive script, reading "Joel P. Dimmette, Jr.", is written over a horizontal line.

Joel P. Dimmette, Jr.  
Site Vice President  
Quad Cities Nuclear Power Station

Attachment

cc: Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – Quad Cities Nuclear Power Station

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bcc: Project Manager – NRR  
Office of Nuclear Facility Safety, - IDNS  
Senior Reactor Analyst – IDNS  
Manager of Energy Practice – Winston and Strawn  
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Vice President, Regulatory Services– ComEd  
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D. Tubbs – MidAmerican Energy Company  
Regulatory Assurance Manager – Dresden Nuclear Power Station  
Regulatory Assurance Manager – LaSalle Nuclear Power Station  
Regulatory Assurance Manager – Quad Cities Nuclear Power Station  
NRC Coordinator – Quad Cities Nuclear Power Station  
NSRB Site Coordinator – Quad Cities Nuclear Power Station  
B. Ganser - IDNS  
SVP Letter File  
L. Hamilton - Quad Cities Nuclear Power Station  
D. Kelley - Quad Cities Nuclear Power Station

ATTACHMENT

QUAD CITIES NUCLEAR POWER STATION UNITS 1 AND 2  
MONTHLY OPERATING REPORT

COMMONWEALTH EDISON COMPANY  
AND  
MIDAMERICAN ENERGY COMPANY

FACILITY OPERATING LICENSE NOS. DPR-29 AND DPR-30  
NRC DOCKET NOS. 50-254 AND 50-265

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## I. INTRODUCTION

Quad Cities Nuclear Power Station is composed of two Boiling Water Reactors and Steam Turbine/Generators, each with a Maximum Dependable Capacity of 769 MWe Net, located in Cordova, Illinois. The Station is jointly owned by Commonwealth Edison Company and MidAmerican Energy Company. The Nuclear Steam Supply Systems are General Electric Company Boiling Water Reactors. The Architect/ Engineer was Sargent & Lundy, Incorporated, and the primary construction contractor was United Engineers & Constructors. The Mississippi River is the condenser cooling water source. The plant is subject to license numbers DPR-29 and DPR-30, issued October 1, 1971, and March 21, 1972, respectively; pursuant to Docket Numbers 50-254 and 50-265. The date of initial Reactor criticalities for Units One and Two, respectively were October 18, 1971, and April 26, 1972. Commercial generation of power began on February 18, 1973 for Unit One and March 10, 1973 for Unit Two.

This report was compiled by Lynne Hamilton and Debra Kelley, telephone number 309-654-2241, extensions 3114 and 2240, respectively.

## II. SUMMARY OF OPERATING EXPERIENCE

### A. Unit One

Quad Cities Unit One began the month of February operating at full power. Unit One operated throughout the month at full power with minor down power operations for normal maintenance and surveillance testing.

### B. Unit Two

Quad Cities Unit Two began the month of February in continuation of the Q2R15 refuel outage. On February 10, 2000, startup activities commenced, and at 5:21 p.m., Unit 2 went critical. On February 11, 2000, at 7:18 p.m., the main generator was synchronized to the grid. At 11:52 p.m., the main generator was separated from the grid to perform turbine overspeed testing. Testing was completed, and on February 12, 2000, at 3:23 a.m., the generator was synchronized to the grid. Scram timing was performed, rod pattern adjustments were made, and full power was achieved on February 14, 2000. Unit Two operated throughout the remainder of the month at full power with minor down power operations for routine maintenance and surveillance testing.

### III. OPERATING DATA STATISTICS

#### A. Unit One Operating Data Report for February 2000

DOCKET NO.: 50-254  
DATE: March 13, 2000  
COMPLETED BY: Lynne Hamilton  
TELEPHONE: (309) 654-2241

#### OPERATING STATUS

0000 020100

1. REPORTING PERIOD: 2400 022900 GROSS HOURS IN REPORTING PERIOD: 696
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2511 MAX. DEPEND. CAPACITY: 769  
DESIGN ELECTRICAL RATING (MWe-NET): 789

UNIT ONE	THIS MONTH	YTD	CUMULATIVE
3. NUMBER OF HOURS THE REACTOR WAS CRITICAL	696.00	1440.00	186482.30
4. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	3421.90
5. HOURS GENERATOR ON-LINE	696.00	1440.00	181245.60
6. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	909.20
7. GROSS THERMAL ENERGY GENERATED (MWH)	1744985.52	3609569.52	399793287.96
8. GROSS ELECTRICAL ENERGY GENERATED (MWH)	567700.00	1173657.00	129377169.00
9. NET ELECTRICAL ENERGY GENERATED (MWH)	544366.00	1124409.00	116759851.00
10. REACTOR SERVICE FACTOR	100.00	100.00	76.29
11. REACTOR AVAILABILITY FACTOR	100.00	100.00	77.69
12. UNIT SERVICE FACTOR	100.00	100.00	74.15
13. UNIT AVAILABILITY FACTOR	100.00	100.00	74.52
14. UNIT CAPACITY FACTOR (Using MDC)	101.71	101.54	62.12
15. UNIT CAPACITY FACTOR (Using Design MWe)	99.13	98.97	60.54
16. UNIT FORCED OUTAGE RATE	0.00	0.00	6.76

### III. OPERATING DATA STATISTICS

#### B. Unit Two Operating Data Report for February 2000

DOCKET NO.: 50-265  
DATE: March 13, 2000  
COMPLETED BY: Lynne Hamilton  
TELEPHONE: (309) 654-2241

#### OPERATING STATUS

0000 020100

1. REPORTING PERIOD: 2400 022900 GROSS HOURS IN REPORTING PERIOD: 696
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2511 MAX. DEPEND. CAPACITY: 769  
DESIGN ELECTRICAL RATING (MWe-NET): 789

UNIT TWO	THIS MONTH	YTD	CUMULATIVE
3. NUMBER OF HOURS THE REACTOR WAS CRITICAL	462.70	944.20	179172.60
4. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	2985.80
5. HOURS GENERATOR ON-LINE	433.20	913.20	174517.25
6. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	702.90
7. GROSS THERMAL ENERGY GENERATED (MWH)	996155.52	2063531.28	384160239.18
8. GROSS ELECTRICAL ENERGY GENERATED (MWH)	326249.00	669738.00	123277253.00
9. NET ELECTRICAL ENERGY GENERATED (MWH)	311609.00	639214.00	117002946.00
10. REACTOR SERVICE FACTOR	66.48	65.57	73.77
11. REACTOR AVAILABILITY FACTOR	66.48	65.57	75.00
12. UNIT SERVICE FACTOR	62.24	63.42	71.85
13. UNIT AVAILABILITY FACTOR	62.24	63.42	72.14
14. UNIT CAPACITY FACTOR (Using MDC)	58.22	57.72	62.64
15. UNIT CAPACITY FACTOR (Using Design MWe)	56.74	56.26	61.06
16. UNIT FORCED OUTAGE RATE	0.00	0.00	10.44



#### IV. UNIT SHUTDOWNS

##### A. Unit One Shutdowns for February 2000

DOCKET NO.: 50-254  
DATE: March 13, 2000  
COMPLETED BY: Lynne Hamilton  
TELEPHONE: (309) 654-2241

No.	DATE	TYPE F OR S	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN REACTOR	CORRECTIVE ACTIONS/COMMENTS
						None for the month of February.

**Legend:**

**(1) Reason**

- A – Equipment Failure (Explain)
- B – Maintenance or Test
- C – Refueling
- D – Regulatory Restriction
- E – Operator Training/License Examination
- F – Administrative
- G – Operational Error (Explain)
- H – Other (Explain)

**(2) Method**

- 1 – Manual
- 2 – Manual Trip/Scram
- 3 – Automatic Trip/Scram
- 4 – Continuation
- 5 – Other (Explain)

#### IV. UNIT SHUTDOWNS

##### B. Unit Two Shutdowns for February 2000

DOCKET NO.: 50-265  
DATE: March 13, 2000  
COMPLETED BY: Lynne Hamilton  
TELEPHONE: (309) 654-2241

No.	DATE	TYPE F OR S	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN REACTOR	CORRECTIVE ACTIONS/COMMENTS
2000-01	000201	S	262.8	C	4	Q2R15 Refuel Outage

**Legend:**

**(1) Reason**

- A – Equipment Failure (Explain)
- B – Maintenance or Test
- C – Refueling
- D – Regulatory Restriction
- E – Operator Training/License Examination
- F – Administrative
- G – Operational Error (Explain)
- H – Other (Explain)

**(2) Method**

- 1 – Manual
- 2 – Manual Trip/Scram
- 3 – Automatic Trip/Scram
- 4 – Continuation
- 5 – Other (Explain)

## **V. AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS**

Technical Specification Amendment No. 195 was issued on February 4, 2000 to Facility Operating License No. DPR-29 and Amendment No. 191 to Facility Operating License No. DPR-30 for Quad Cities Nuclear Power Station, Units 1 and 2, respectively.

The amendments change Technical Specification (TS) 3/4.6.K to revise the reactor pressure boundary pressure-temperature limits, change TS 3/4.12.C to delete a special test exception which allows performance of the hydrostatic test above 212 degrees Fahrenheit while in Mode 4, and change TS 3/4.6.P to clarify the operability requirements for the residual heat removal system during the hydrostatic test.

The Commission has approved the exemption from specific requirements of Title 10 of the Code of Federal Regulations (10CFR) Part 50 Section 50.60(a) and Appendix G, for Quad Cities Nuclear Power Station, Units 1 and 2 (Quad Cities). The new P-T limits were developed using the methodologies in the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (Code) Cases N-588, "Alternative to Reference Flaw Orientation of Appendix G for Circumferential Welds in Reactor Vessels, Section XI, Division 1," and N-640, "Alternative Reference Fracture Toughness for Development of P-T Limit Curves for ASME Section XI, Division 1", instead of the methodologies in 10 CFR Part 50, Appendix G.

## VI. UNIQUE REPORTING REQUIREMENTS

The following items are included in this report based on the requirements set forth in Technical Specification 6.9.A.5.

### A. Main Steam Relief Valve Operations

Relief valve operations during the reporting period are summarized in the following table. The table includes information as to which relief valve was actuated, how it was actuated, and the circumstances resulting in its actuation.

Unit: Two

Date: February 11, 2000

Valve Actuated:

No. & Type of Actuation:

2-0203-3A	1 Manual
2-0203-3B	1 Manual
2-0203-3C	1 Manual
2-0203-3D	1 Manual
2-0203-3E	1 Manual

Plant Conditions: Reactor Pressure 300 psig

Description of Events: QCOS 0203-03, "Main Steam Relief Valve Operability Test" for normal surveillance and post outage testing.