



Commonwealth Edison

Quad Cities Nuclear Power Station
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PCA-95-013

February 9, 1995

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

SUBJECT: Quad Cities Nuclear Station Units 1 and 2
Monthly Performance Report
NRC Docket Nos. 50-254 and 50-265

Enclosed for your information is the Monthly Performance Report covering the operation of Quad-Cities Nuclear Power Station, Units One and Two, during the month of January 1995.

Also, please find attached the revised Appendix C on Unit 2 for the month of December.

Respectfully,

ComEd
Quad-Cities Nuclear Power Station

Paul C. Aitken
System Engineering Supervisor

PCA/dak

Enclosure

cc: J. Martin, Regional Administrator
C. Miller, Senior Resident Inspector

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QUAD-CITIES NUCLEAR POWER STATION

UNITS 1 AND 2

MONTHLY PERFORMANCE REPORT

January 1995

COMMONWEALTH EDISON COMPANY

AND

IOWA-ILLINOIS GAS & ELECTRIC COMPANY

NRC DOCKET NOS. 50-254 AND 50-265

LICENSE NOS. DPR-29 AND DPR-30

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I. INTRODUCTION

Quad-Cities Nuclear Power Station is composed of two Boiling Water Reactors, each with a Maximum Dependable Capacity of 769 MWe Net, located in Cordova, Illinois. The Station is jointly owned by Commonwealth Edison Company and Iowa-Illinois Gas & Electric 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 Kristal Moore and Debra Kelley, telephone number 309-654-2241, extensions 3070 and 2240.

II. SUMMARY OF OPERATING EXPERIENCE

A. Unit One

Quad Cities Unit One started the month of January 1995 shutdown in a forced outage. The reactor was made critical on January 10, at 1513 hours and the generator was synchronized to the grid on January 12, at 2300 hours. A load reduction was performed to do repairs on the 1A2 Flash Tank.

B. Unit Two

Quad Cities Unit Two began the month of January 1995 at full capable load and remained on line through out the month.

On January 12 at 0600 hours, Unit 2 dropped load for Condensate Demineralizer backwash and precoat. Also on January 22 and January 26 load drops were performed due to problems with the Condensate Demineralizers such as high silica, plugged post strainer and high conductivity.

A few other load drops were performed but none caused the average daily unit power level to drop by 20% or greater.

III. PLANT OR PROCEDURE CHANGES, TESTS, EXPERIMENTS,
AND SAFETY RELATED MAINTENANCE

A. Amendments to Facility License or Technical Specifications

There were no Amendments to the Facility License or Technical Specifications for the reporting period.

B. Facility or Procedure Changes Requiring NRC Approval

There were no Facility or Procedure changes requiring NRC approval for the reporting period.

C. Tests and Experiments Requiring NRC Approval

There were no Tests or Experiments requiring NRC approval for the reporting period.

IV. LICENSEE EVENT REPORTS

The following is a tabular summary of all licensee event reports for Quad-Cities Units One and Two occurring during the reporting period, pursuant to the reportable occurrence reporting requirements as set forth in sections 6.6.B.1 and 6.6.B.2 of the Technical Specifications.

UNIT 1

<u>Licensee Event Report Number</u>	<u>Date</u>	<u>Title of occurrence</u>
95-001	01/02/95	RCIC INOP
95-002	01/20/95	CR HVAC INOP
95-003	01/25/95	Tip System response to a PCIS Signal

UNIT 2

<u>Licensee Event Report Number</u>	<u>Date</u>	<u>Title of occurrence</u>
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There were no Licensee Event Reports for Unit 2 for this reporting period.

V. DATA TABULATIONS

The following data tabulations are presented in this report:

- A. Operating Data Report
- B. Average Daily Unit Power level
- C. Unit Shutdowns and Power Reductions

APPENDIX C

OPERATING DATA REPORT

DOCKET NO. 50-254

UNIT One

DATE February 9, 1995

COMPLETED BY Kristal Moore

TELEPHONE (309) 654-2241

OPERATING STATUS

0000 010194

1. REPORTING PERIOD: 2400 013194 GROSS HOURS IN REPORTING PERIOD: 744

2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2511 MAX > DEPEND > CAPACITY: 769
DESIGN ELECTRICAL RATING (MWe-NET): 789

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): N/A

4. REASONS FOR RESTRICTION (IF ANY):

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	512.80	512.80	152945.30
6. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	3421.90
7. HOURS GENERATOR ON LINE	457.00	457.00	148280.90
8. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	909.20
9. GROSS THERMAL ENERGY GENERATED (MWH)	882951.90	882951.90	320039075.30
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	281020.00	281020.00	103744874.00
11. NET ELECTRICAL ENERGY GENERATED (MWH)	265985.00	265985.00	97854151.00
12. REACTOR SERVICE FACTOR	68.92	68.92	76.50
13. REACTOR AVAILABILITY FACTOR	68.92	68.92	78.22
14. UNIT SERVICE FACTOR	61.42	61.42	74.17
15. UNIT AVAILABILITY FACTOR	61.42	61.42	74.63
16. UNIT CAPACITY FACTOR (Using MDC)	46.49	46.49	63.65
17. UNIT CAPACITY FACTOR (Using Design MWe)	45.31	45.31	62.04
18. UNIT FORCED OUTAGE RATE	38.58	38.58	7.63

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

20. IF SHUTDOWN AT END OF REPORT PERIOD < ESTIMATED DATE OF STARTUP:

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

	FORECAST	ACHIEVED	
INITIAL CRITICALITY			
INITIAL ELECTRICITY			
COMMERCIAL OPERATION			

APPENDIX C			
OPERATING DATA REPORT			
DOCKET NO.		50-265	
UNIT		Two	
DATE		February 9, 1995	
COMPLETED BY		Kristal Moore	
TELEPHONE		(309) 654-2241	
OPERATING STATUS			
0000 010194			
1. REPORTING PERIOD: 2400 013194 GROSS HOURS IN REPORTING PERIOD: 744			
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2511 MAX > DEPEND > CAPACITY: 769 DESIGN ELECTRICAL RATING (MWe-NET): 789			
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): N/A			
4. REASONS FOR RESTRICTION (IF ANY):			
	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	744.00	744.00	150519.85
6. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	2985.80
7. HOURS GENERATOR ON LINE	744.00	744.00	146675.65
8. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	702.90
9. GROSS THERMAL ENERGY GENERATED (MWH)	1655253.30	1655253.30	317595957.40
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	524392.00	524392.00	102038293.00
11. NET ELECTRICAL ENERGY GENERATED (MWH)	501116.00	501116.00	96657025.00
12. REACTOR SERVICE FACTOR	100.00	100.00	75.88
13. REACTOR AVAILABILITY FACTOR	100.00	100.00	77.39
14. UNIT SERVICE FACTOR	100.00	100.00	73.95
15. UNIT AVAILABILITY FACTOR	100.00	100.00	74.30
16. UNIT CAPACITY FACTOR (Using MDC)	87.59	87.59	63.37
17. UNIT CAPACITY FACTOR (Using Design MWe)	85.37	85.37	61.76
18. UNIT FORCED OUTAGE RATE	0.00	0.00	9.88
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
20. IF SHUTDOWN AT END OF REPORT PERIOD < ESTIMATED DATE OF STARTUP:			
21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):			
	FORECAST	ACHIEVED	
INITIAL CRITICALITY			
INITIAL ELECTRICITY			
COMMERCIAL OPERATION			

APPENDIX C

OPERATING DATA REPORT (Revised December 1994)

DOCKET NO. 50-265

UNIT Two

DATE January 9, 1995

COMPLETED BY Kristal Moore

TELEPHONE (309) 654-2241

OPERATING STATUS

0000 120194

1. REPORTING PERIOD: 2400 123194 GROSS HOURS IN REPORTING PERIOD: 744

2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2511 MAX > DEPEND > CAPACITY: 769
DESIGN ELECTRICAL RATING (MWe-NET): 789

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): N/A

4. REASONS FOR RESTRICTION (IF ANY):

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	402.20	5874.80	149775.85
6. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	2985.80
7. HOURS GENERATOR ON LINE	353.30	5748.50	145931.65
8. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	702.90
9. GROSS THERMAL ENERGY GENERATED (MWH)	397,065.60	12779221.00	315560182.90
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	115449.00	4204131.00	101513901.00
11. NET ELECTRICAL ENERGY GENERATED (MWH)	104905.00	4013349.00	96155909.00
12. REACTOR SERVICE FACTOR	54.06	67.07	75.79
13. REACTOR AVAILABILITY FACTOR	54.06	67.07	77.30
14. UNIT SERVICE FACTOR	47.49	65.63	73.85
15. UNIT AVAILABILITY FACTOR	47.49	65.63	74.20
16. UNIT CAPACITY FACTOR (Using MDC)	18.34	59.58	63.28
17. UNIT CAPACITY FACTOR (Using Design MWe)	17.87	58.07	61.67
18. UNIT FORCED OUTAGE RATE	52.51	34.37	9.93

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

20. IF SHUTDOWN AT END OF REPORT PERIOD < ESTIMATED DATE OF STARTUP:

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

	FORECAST	ACHIEVED	
INITIAL CRITICALITY			
INITIAL ELECTRICITY			
COMMERCIAL OPERATION			

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-254
UNIT One
DATE February 9, 1995
COMPLETED BY Kristal Moore
TELEPHONE (309) 654-2241

MONTH January 1995

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1.	<u>- 8</u>
2.	<u>- 8</u>
3.	<u>- 8</u>
4.	<u>- 8</u>
5.	<u>- 8</u>
6.	<u>- 8</u>
7.	<u>- 8</u>
8.	<u>- 9</u>
9.	<u>- 8</u>
10.	<u>- 8</u>
11.	<u>- 9</u>
12.	<u>- 7</u>
13.	<u>129</u>
14.	<u>143</u>
15.	<u>142</u>
16.	<u>171</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17.	<u>564</u>
18.	<u>665</u>
19.	<u>670</u>
20.	<u>668</u>
21.	<u>666</u>
22.	<u>455</u>
23.	<u>759</u>
24.	<u>762</u>
25.	<u>771</u>
26.	<u>771</u>
27.	<u>770</u>
28.	<u>768</u>
29.	<u>764</u>
30.	<u>769</u>
31.	<u>769</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.

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APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-265
UNIT Two
DATE January 9, 1995
COMPLETED BY Kristal Moore
TELEPHONE (309) 654-2241

MONTH January 1995

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1.	<u>610</u>
2.	<u>607</u>
3.	<u>609</u>
4.	<u>637</u>
5.	<u>721</u>
6.	<u>710</u>
7.	<u>721</u>
8.	<u>717</u>
9.	<u>706</u>
10.	<u>709</u>
11.	<u>703</u>
12.	<u>633</u>
13.	<u>629</u>
14.	<u>669</u>
15.	<u>726</u>
16.	<u>720</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17.	<u>750</u>
18.	<u>754</u>
19.	<u>753</u>
20.	<u>753</u>
21.	<u>754</u>
22.	<u>662</u>
23.	<u>703</u>
24.	<u>751</u>
25.	<u>754</u>
26.	<u>520</u>
27.	<u>463</u>
28.	<u>470</u>
29.	<u>470</u>
30.	<u>732</u>
31.	<u>750</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.

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-254

UNIT NAME One

COMPLETED BY Kristal Moore

DATE February 9, 1995 REPORT MONTH January 1995

TELEPHONE 309-654-2241

[illegible]

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-265

UNIT NAME Two

COMPLETED BY Kristal Moore

DATE February 9, 1995 REPORT MONTH January, 1995

TELEPHONE 309-654-2241

[illegible]

VI. UNIQUE REPORTING REQUIREMENTS

The following items are included in this report based on prior commitments to the commission:

A. Main Steam Relief Valve Operations

There were no Main Steam Relief Valve Operations for the reporting period.

B. Control Rod Drive Scram Timing Data for Units One and Two

The basis for reporting this data to the Nuclear Regulatory Commission are specified in the surveillance requirements of Technical Specifications 4.3.C.1 and 4.3.C.2.

The following table is a complete summary of Units One and Two Control Rod Drive Scram timing for the reporting period. All scram timing as performed with reactor pressure greater than 800 PSIG.

RESULTS OF SCRAM TIMING MEASUREMENTS
 PERFORMED ON UNIT 1 & 2 CONTROL
 ROD DRIVES, FROM 01/01/95 TO 12/31/95

DATE	NUMBER OF RODS	AVERAGE TIME IN SECONDS AT % INSERTED FROM FULLY WITHDRAWN				MAX. TIME FOR 90% INSERTION	DESCRIPTION
		5	20	50	90		
		0.375	0.900	2.00	3.5	7 sec.	Technical Specification 3.3.C.1 & 3.3.C.2 (Average Scram Insertion Time)
01/15/95	177	0.31	0.70	1.47	2.57	3.30 J-6	Post Maintenance after Q1F35 Seq A, B, Done

VII. REFUELING INFORMATION

The following information about future reloads at Quad-Cities Station was requested in a January 26, 1978, licensing memorandum (78-24) from D. E. O'Brien to C. Reed, et al., titled "Dresden, Quad-Cities and Zion Station--NRC Request for Refueling Information", dated January 18, 1978.

QUAD CITIES REFUELING
INFORMATION REQUEST

QTP 300-S32
Revision 2
October 1989

1. Unit: Q1 Reload: 13 Cycle: 14
2. Scheduled date for next refueling shutdown: 1-4-96
3. Scheduled date for restart following refueling: 5-9-96
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment:

No
5. Scheduled date(s) for submitting proposed licensing action and supporting information:

7-4-95
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures:
7. The number of fuel assemblies.
 - a. Number of assemblies in core: 724
 - b. Number of assemblies in spent fuel pool: 1717
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned in number of fuel assemblies:
 - a. Licensed storage capacity for spent fuel: 3657
 - b. Planned increase in licensed storage: 0
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity: 2006

APPROVED

OCT 30 1989

Q.C.O.S.R.

(final)

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QUAD CITIES REFUELING
INFORMATION REQUEST

QTP 300-S32
Revision 2
October 1989

1. Unit: Q2 Reload: 12 Cycle: 13
2. Scheduled date for next refueling shutdown: 3-5-95
3. Scheduled date for restart following refueling: 7-9-95
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment:

YES - Safety limit MCPR to be changed from 1.06 to 1.07 due to GE10 Fuel. Change TS at end of Cycle 13 operation.
5. Scheduled date(s) for submitting proposed licensing action and supporting information:
Approved June 10, 1994
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures:

144 GE10 fuel bundles will be loaded during Q2R13.
7. The number of fuel assemblies.
 - a. Number of assemblies in core: 724
 - b. Number of assemblies in spent fuel pool: 2583
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned in number of fuel assemblies:
 - a. Licensed storage capacity for spent fuel: 3897
 - b. Planned increase in licensed storage: 0
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity: 2006

APPROVED
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Q.C.O.S.R.

(final)
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VIII. GLOSSARY

The following abbreviations which may have been used in the Monthly Report, are defined below:

ACAD/CAM	- Atmospheric Containment Atmospheric Dilution/Containment Atmospheric Monitoring
ANSI	- American National Standards Institute
APRM	- Average Power Range Monitor
ATWS	- Anticipated Transient Without Scram
BWR	- Boiling Water Reactor
CRD	- Control Rod Drive
EHC	- Electro-Hydraulic Control System
EOF	- Emergency Operations Facility
GSEP	- Generating Stations Emergency Plan
HEPA	- High-Efficiency Particulate Filter
HPCI	- High Pressure Coolant Injection System
HRSS	- High Radiation Sampling System
IPCLRT	- Integrated Primary Containment Leak Rate Test
IRM	- Intermediate Range Monitor
ISI	- Inservice Inspection
LER	- Licensee Event Report
LLRT	- Local Leak Rate Test
LPCI	- Low Pressure Coolant Injection Mode of RHRs
LPRM	- Local Power Range Monitor
MAPLHGR	- Maximum Average Planar Linear Heat Generation Rate
MCPR	- Minimum Critical Power Ratio
MFLCPR	- Maximum Fraction Limiting Critical Power Ratio
MPC	- Maximum Permissible Concentration
MSIV	- Main Steam Isolation Valve
NIOSH	- National Institute for Occupational Safety and Health
PCI	- Primary Containment Isolation
PCIOMR	- Preconditioning Interim Operating Management Recommendations
RBCCW	- Reactor Building Closed Cooling Water System
RBM	- Rod Block Monitor
RCIC	- Reactor Core Isolation Cooling System
RHRS	- Residual Heat Removal System
RPS	- Reactor Protection System
RWM	- Rod Worth Minimizer
SBGTS	- Standby Gas Treatment System
SBLC	- Standby Liquid Control
SDC	- Shutdown Cooling Mode of RHRS
SDV	- Scram Discharge Volume
SRM	- Source Range Monitor
TBCCW	- Turbine Building Closed Cooling Water System
TIP	- Traversing Incore Probe
TSC	- Technical Support Center