Commonwealth Edison Company Quad Citics Generating Station 22710 206th Avenue North

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ComEd

LWP-96-011

February 9, 1996

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

Quad Cities Nuclear Station Units 1 and 2 SUBJECT: 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 1996.

Respectfully,

ComEd Quad-Cities Nuclear Power Station

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W. Pearce L . Station Manager

LWP/dak

Enclosure

H. Miller, Regional Administrator cc: C. Miller, Senior Resident Inspector

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QUAD-CITIES NUCLEAR POWER STATION

UNITS 1 AND 2

MONTHLY PERFORMANCE REPORT

January 1996

COMMONWEALTH EDISON COMPANY

AND

MID-AMERICAN ENERGY 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 . th a Maximum Dependable Capacity of 769 MWe Net, located in Cordova, Illinois. The Station is jointly owned by Commonwealth Edison Company and Mid-American 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 Kristal Moore and Debra Kelley, telephone number 309-654-2241, extensions 3070 and 2240, respectively.

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II. SUMMARY OF OPERATING EXPERIENCE

A. Unit One

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Quad Cities Unit One remained on-line for the entire month of January 1996. A few load drops were performed, however the average daily power level remained at 80% or greater.

B. Unit Two

Quad Cities Unit Two spent the month of January 1996 at full power except for on January 4, 1996, a load drop was performed to repair a flex line break which occurred on the 2A Moisture Separator Drain Tank Level Column.

III. <u>PLANT OR PROCEDURE CHANGES. TESTS. EXPERIMENTS.</u> AND SAFETY RELATED MAINTENANCE

A. Amendments to Facility License or Technical Specifications

Technical Specification Amendment No. 169 was issued on January 11, 1996 to Facility Operating License DPR-29 and Amendment No. 165 to Facility Operating License DPR-30 for Quad Cities Nuclear Power Station. The amendments revised the Technical Specifications to incorporate 10 CFR Part 50, Appendix J, "Primary Reactor Containment Leakage Testing for Water-Cooled Power Reactors," Option B.

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.

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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

Report Number	Date	Title of occurrence
96-004	1/30/96	HPCI INOP - Auxiliary oil pump

UNIT 2

Licensee Event Report Number

Liconcoo Event

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Date

Title of occurrence

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

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- B. Average Daily Unit Power Level
- C. Unit Shutdowns and Power Reductions

APPEN	DIX C	Active network of the design of the trade of the design of the	
OPERATING D.	ATA REPORT		
		DOCKET NO. UNIT DATE COMPLETED BY	50-254 One February 9, 1996 Kristal Moore
		TELEPHONE	(309) 654-2241
OPERATING STATUS			
0000 010196 1. REPORTING PERIOD: 2400 013196 GROSS HOURS IN	REPORTING PERIOD): 744	
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 251 DESIGN ELECTRICAL RATING (MWe-NET): 789	1 MAX > DEPEND	> CAPACITY: 769	
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MW	e-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	161207.50
6. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	3421.90
7. HOURS GENERATOR ON LINE	744.00	744.00	156503.20
8. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	909.20
9. GROSS THERMAL ENERGY GENERATED (MWH)	1825428.50	1825428.50	340231226.10
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	588127.00	588127.00	110202208.00
11. NET ELECTRICAL ENERGY GENERATED (MWH)	563558.00	563558.00	104037934.00
12. REACTOR SERVICE FACTOR	100.00	100.00	77.25
13. REACTOR AVAILABILITY FACTOR	100.00	100.00	78.85
14. UNIT SERVICE FACTOR	100.00	100.00	75.00
15. UNIT AVAILABILITY FACTOR	100.00	100.00	75.43
16. UNIT CAPACITY FACTOR (Using MDC)	98.50	98.50	64.83
17. UNIT CAPACITY FACTOR (Using Design MWe)	96.00	96.00	63.19
18. UNIT FORCED OUTAGE RATE	0.00	0.00	7.55
 SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (T) thru 4/28/96 	YPE, DATE, AND DU	RATION OF EACH):	Refuel, 2/10/96
20. IF SHUTDOWN AT END OF REPORT PERIOD < ESTIMA	TED DATE OF STAR	TUP: N/A	
21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPE	RATION): N/A	MANY - WEDDING COURSE IN A PARTY OF A PARTY OF	
	FORECAST	ACHIEVED	
INITIAL CRITICALITY			
INITIAL ELECTRICITY			

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APPEN	DIX C	NAME AND CONTRACTORS.	
OPERATING D	ATA REPORT		
		DOCKET NO.	50-265
		UNIT	Two
		DATE	February 9, 1990
		COMPLETED BY	Kristal Moore
		TELEPHONE	(309) 654-2241
OPERATING STATUS			
0000 010196 1. REPORTING PERIOD: 2400 013196 GROSS HOURS IN	REPORTING PERIOD	: 744	
2. CURRENTLY AUTHORIZED POWER LEVEL (MWI): 251 DESIGN ELECTRICAL RATING (MWe-NET): 789	1 MAX > DEPEND	> CAPACITY: 769	
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWG	e-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	154631.7
6. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	2985.8
7. HOURS GENERATOR ON LINE	744.00	744.00	150643.5
8. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	702.9
9. GROSS THERMAL ENERGY GENERATED (MWH)	1807028.30	1807028.30	326148249.2
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	580413.00	580413.00	104725948.0
11. NET ELECTRICAL ENERGY GENERATED (MWH)	556367.00	556367.00	99209253.0
12. REACTOR SERVICE FACTOR	100.00	100.00	74.6
13. REACTOR AVAILABILITY FACTOR	100.00	100.00	76.1
14. UNIT SERVICE FACTOR	100.00	100.00	72.7
15. UNIT AVAILABILITY FACTOR	100.00	100.00	73.0
16. UNIT CAPACITY FACTOR (Using MDC)	97.24	97.24	62.2
17. UNIT CAPACITY FACTOR (Using Design MWe)	94.78	94.78	60.7
18. UNIT FORCED OUTAGE RATE	0.00	0.00	10.2
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (T)	PE, DATE, AND DU	RATION OF EACH):	N/A
20. IF SHUTDOWN AT END OF REPORT PERIOD < ESTIMA	TED DATE OF STAR	TUP: N/A	
21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPE	RATION): N/A		
	FORECAST	ACHIEVED	
INITIAL CRITICALITY			
INITIAL ELECTRICITY			

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APPENDIX B AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO EO DEA

		DOCKET UN DA COMPLETED TELEPHO	IT <u>One</u> TE <u>February 9, 1996</u> BY Kristal Moore
MONTH _	January 1996		
DAY AVER	AGE DAILY POWER LEVEL (MWe-Net)	DAY AVERAG	E DAILY POWER LEVEL (MWe-Net)
1	757	17	770
2	775	10	768
3	775	19	763
4	775	20	744
5	774	21	758
6	766	22	753
7	774	23	700
8	774	24	755
9	774	25	742
10	746	26	740
11	774	27	737
12	773	28	732
13	774	29	728
14	775	30	725
15	773	31	721
16	772		

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 cutput sheet should be footnoted to explain the apparent anomaly.

APPENDIX B AVERAGE DAILY UNIT POWER LEVEL

MONTH January 19	96	DOCKET N UNI DAT COMPLETED B TELEPHON	T <u>Two</u> E <u>February 9, 1996</u> BY Kristal Moore
DAY AVERAGE DAILY (MWe-N		DAY AVERAGE	DAILY POWER LEVEL (MWe-Net)
1775	<u>;</u>	17	774
2774	L	18	774
3773	1	19	773
4 323	l	20	774
5702	<u>}</u>	21	767
6769)	22	772
7728]	23	706
B772	<u> </u>	24	772
762		25	774
10750)	26	774
11773	L	27	773
12 773	L	28	744
13684		29	770
14772		30	773
15773		31	773
16773	1		

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. <u>50-254</u> UNIT NAME <u>One</u> DATE <u>February 9, 1996</u>		REPORT MONTH January 1996					COMPLETED BY <u>Kristal Moore</u> TELEPHONE <u>309-654-2241</u>			
NO	. DI	ATE	TYPE F OR S	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT	SYSTEM CODE	COMPONENT CODE	CORRECTIVE A	CTIONS/COMMENTS
										None for the month	of January.
<u> </u>											
					++					1	
-	-					and the second					
										<u> </u>	
-					+						
-											
		-									
						ana ang kanalan sa pang kanala					

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APPENDIX D UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-265

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UNIT NAME Two COMPLETED BY Kristal Moore
DATE February 9, 1996 REPORT MONTH January 1996 TELEPHONE 309-654-2241

NO.	DATE	TYPE F OR S	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT	SYSTEM CODE	COMPONENT CODE	CORRECTIVE ACTIONS/COMMENTS
96-01	1/4/96	F	0	*	5				Repair Moisture Separator Drain Tank Steam Leak.
		L							

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

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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 <u>1 & 2</u> CONTROL ROD DRIVES, FROM <u>01/01/96</u> TO <u>01/31/96</u>

	AVERAGE TIME IN SECONDS AT % INSERTED FROM FULLY WITHDRAWN					MAX. TIME FOR 90% INSERTION			
DATE	NUMBER OF RODS	0.375	20	50	90	1 7 sec.	Technical Specification 3.3.C.1 & 3.3.C.2 (Average Scram Insertion Time)		
1/13/96	29	0.339	0.708	1.459	2.538	2.91 (K10)	Scram Time Test for Viton Issue		

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 300-532 Revision 2 October 1989

1.	Unit:01	Reload: 14	Cycle:	15	
2.	Scheduled date for nex	t refueling shutdown:		2/10/96	
3.	Scheduled date for res	tart following refueling:		4/28/96	

4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment:

NO

a .

b.

 Scheduled date(s) for submitting proposed licensing action and supporting information:

3-15-96

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:

232 GE10 Fuel Bundles will be loaded during Q1R14.

7. The number of fuel assemblies.

Number	of	assemblies	in	core:			724
Number	of	assemblies	in	spent	fuel	poo1:	1701

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:

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QUAD CITIES REFUELING INFORMATION REQUEST QTP 300-S32 Revision 2 October 1989

1.	Unit:	Q2		Reload:	13	Cycle:	14
2.	Scheduled	date f	or next	refueling s	hutdown:		1-6-97
3.	Scheduled	date f	or resta	rt followin	g refueling:		3-30-97

- 4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment: YES
- Scheduled date(s) for submitting proposed licensing action and supporting information:

November, 1996

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:

Approx. 224 Siemens 9X9IX Power Corporation Fuel Bundles will be loaded during Q2R14.

7. The number of fuel assemblies.

a.	Number	of	assemblies	in	core:		724
b .	Number	of	assemblies	in	spent fuel	poo1:	2727

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

 The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

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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