RAR-91-12

March 4, 1991

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 February 1991.

Respectfully,

COMMONWEALTH EDISON COMPANY QUAD-CITIES NUCLEAR POWER STATION

R. A. Robey

Technical Superintendent

RAR/CALS/klm

Enclosure

cc: A. B. Davis, Pegiona' Administrator T. Taylor, Senior Resident Inspector

nrcreprt

QUAD-CITIES NUCLEAR POWER STATION

UNITS 1 AND 2

MONTHLY PERFORMANCE REPORT

FEBRUARY 1991

COMMONWEALTH EDISON COMPANY

AND

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 Cynthia A. Losek-Short and Karen McDearmon, telephone number 309-654-2241, extensions 2938 and 2240.

II. SUMMARY OF OPERATING EXPERIENCE

A. Unit One

Unit One began the month of February with the continuation of the refuel outage. Preliminary testing of the Unit continued throughout the month in preparation for startup in March.

B. Unit Two

Unit Two began the month of February operating in Economic Generation Control (EGC). Normal operational activities were performed for the month. The unit remained in EGC or operated near full power with the only drop in power occurring on February 16th per request of Chicago Load Dispatch.

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

A. Amendments to Facility License or Technical Specifications

Technical Specification Amendments No. 123 and No. 128 were issued on February 13, 1991 to Facility Operating Licenses DPR-30 and DPR-29, respectively, for Quad Cities Nuclear Power Station. These amendments extend the ending date of Quad Cities operating license from February 15, 2007 to December 14, 2012.

- 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.

D. Corrective Maintenance of Safety Related Equipment

The following represents a tabular summary of the major safety related maintenance performed on Units One and Two during the reporting period. This summary includes the following: Work Request Numbers, Licensee Event Report Numbers, Components, Cause of Malfunctions, Results and Effects on Safe Operation, and Action Taken to Prevent Repetition.

UNIT 1 MAINTENANCE SUMMARY

WORK REQUEST	SYSTEM	EID DESCRIPTION	WORK PERFORMED
Q89258	0743	Valve Leaks. Replace or repair check valve.	As left: Installed a new check valve using existing fittings from the old valve.
Q85518	1001	Remove anti-rotation pin, replace it if bent.	As found: Found the anti-rotation pin to be bent from improper limit settings. As left: Replaced the anit-rotation pin and lock tited the set screws. Operated the valve after Electrical Maintenance and Operations stroked it, and found it worked well.
Q89706	1001	Adjust the limits on 1-1001-7C to meet the criteria in QEMP 600-1.	As found: TSO bypass limit was delinquent, the limit switch was set too far open on 14" gate valve, and also found valve seating at intermittent current levels. Torque switch suspected cause of valve seating problem. As left: Adjusted TSO bypass limit to 21% and opened limit switch to 12" of stem travel. Replaced the torque switch and balanced the new one.

UNIT 2 MAINTENANCE SUMMARY

Q89757 8802 When cycling to open As found: Found diaphragm lead position the 8802B went As left: Changed out the diaphragm. Request repair as soon as possible.	

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.l. and 6.6.B.2. of the Technical Specifications.

UNIT 1

Licensee Event		
Report Number	Date	Title of Occurrence
91-004	2/8/91	SBGT Heater Failure Logic Missing
91-005	1/31/9	1/B SBGT Auto Start on RPS B Power Swap when train was in Standby and power swapped in 1 sec.
91-006	2/19/91	B RPS bus power supply trip from OAD
91-007	2/16/91	Actuation of 3B Electromatic Relief

UNIT 2

91-004	2/11/91	Both Units SBLC declared INOP
		due to NPSH

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

AFRENDIA C

Docket May 00-254

Unit One
Date March 4 1991

Completed By Control Lower-Shart
Telephane (C4-654-229)

SERBOTTED RESPONS

- 1. Regarding Parint 2451 1222 Store rooms in Report Pariotic 472
- E. Currently Authorized Power Level (Notic 2511 New Depart, Capacity (May-Vet): 757 Design Electrical Russing (May-Net): 285
- Is Power sevel to Worth first riched (19 July) (the Net') Mid-
- the Reasons For Festilities (It any

Till. Gross Electrical Engrap Securities (Mar-		
13 Reactor Availability Factor		
15 Aunit Avellability Factor		

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21. Units in Test Status (Prior to Commercial Operation): Forecast Achieves

Initial Drittstabilty

Initial Electrisory

Compartial Appratture

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Decket Au. 50-265

Wife Tax

Date Hanch C. 1995 To

Completed By Cristna a completed

Pelaphana CCS-656 (CC1)

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- 1. Proventing Parked 2420, 1022821 Green House on Papert Parkeds 572
- Qui Survey a Authorised Roser Level (Natio 2011 Man. Depend. Capacita (Nation 2017 Dependence) Partie (Nation 2017)
- 1. Power Level to which Restricted (14 Any) (Bay-Matilia VAA
- 4. Regions for Restriction (14 ungl)

	THE HOUSE	
140, Bross Electrical Energy Constated (Mah) Sir Not Electrical Energy Senghated (MAh)		

IN: Bhutdowne Suhediles Over Nest A Norths (Type, Date, and Duravion of Each):

IN. It Shot Dean at End of Report Period, Setimated Date of Startup:

200 books in Text Status (Frior to Combercus) Operations: Forecast Achieves

latin Intivate

Vaitual Electricity

AVERAGE DATO DATA POWER LEVEL

Decket ha. 50-254

unit One

Date Margin S. 1983

Completed by Dynnis Stori

MONTH LITERULES

TAXPEST PROPERTY.

In this fore, list the sverage daily unit mover layer in Min-Wes for each may at the recenting month Towards to the new est angle megawait.

These Augusts will be used to bird a graph for each raporting menth. Note that when waisin dependable departity in used for the ret electrical letter of the unit, there may be principle when the delive everage other level excepts the ICCN line for the restricted power level line. In pure cases, the everage delivered to be purely to be a specially unit power output wheet should be fourness to evolve the soperant argument.

APPENDIX BE ANGELE DATE OF THE ANGELS AND THE SELECTION OF THE

Dottet No. 50-215 Unit Two Data March 1, 1991 Chaoleted By Cynthia Short Palechone 207-214-2281

MONTH RESELVE

		785

On this form, list the everage deliv whit power level in the Ant ion each day in the reporting nonth Computs to the neurost whole measurate.

These figures will be used to old a grash for such resorting menth. Note that when excluse dependent capability is used for the hall electrical rating of the unit, there was a occasions when the daily average gover level exceeds the 1961 line on the restricted power level lines. In each cases, the everage daily unit power output sheet should be footnoted to explain the separent another.

APPENDIX D UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-254

UNIT NAME Quad Cities Unit One

COMPLETED BY Cynthia A. Losek-Short

DATE

March 2, 1991

REPORT MONTH February, 1991

TELEPHONE

309-654-2241

NO.	DATE	TYPE F OR S	DURATION (HOURS)	REASON	HETHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT NO.	SYSTEM	COMPONENT	CORRECTIVE ACTIONS/COMMENTS
	910201	S	572		2		RC	FUELXX	Unit One Shutdown for Continuation of Cycle Eleven Refuel Outage.

-1-(final)

UNIT SHUTDOWNS AND POWER REDUCTIONS

50-265

DOCKET NO.

DAIR		7, 1991	-		REF	CALL COLL STORY OF THE		1227	TELEPHONE 309	309-654-2241
NO.	DATE	TYPE F OR S	DURATION (HOURS)	JEVRON	DOWN REACTOR	LICENSEE EVENT REPORT NO.	SYSTEM	COHEONENT	CORRECTIVE ACTIONS/COMMENTS	OHPENTS
	910216	ν ₀	8. T. S.						Unit Two Power Reduction per Chicago Load Dispatch.	Request of

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 Operatins for the reporting period.

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

There was no Control Rod Drive scram timing data for Units One and Two for the reporting period.

VII. REFUELING INFORMATION

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

QTP 300-S32 Revision 2 October 1989

QUAD CITIES REFUELING INFORMATION REQUEST

1.	Unit:	Q1	Reload:	10	Cycle:	_11
2.	Scheduled o	date for	next refueling	shutdown:		11-12-90
3.	Scheduled o	date for	restart follow	ing refueling:		3-17-91
4 .	Yes, a pro- relax the l proposal is	posed cha Minimum C s based o ceived ap ate(s) fo	nge to Technic ritical Power n the Unit One proval.	ense amenoment cal Specificat Ratio (MCPR) Reload 11 Cy	ion has be safety lim cle 12 fue	it. This I loading,
	AUGUST 31,	1990				
6.	W. W. I. E. E.	r interior	considerations sign or suppli gnificant char	Dr IIProut Aug		ing, e.g., new performance operating
	NONE AT FRE	SENT TIME				
7.	The number of	of fuel a	ssemblies.			
	a. Number	of assem	blies in core:			724
	b. Number	of assemi	blies in spent	fuel pool:		1681
3.	ally lift ease	in lice	spant fuel ponsed storage c fuel assembli	apacity that h	acity and as been re	the size of quested or is
	a. License	d storage	capacity for	spent fuel:	-	2657
	b. Planned	increase	in licensed	storage:	-	0
	The projecte spent fuel p	d date of ool assum	the last refu ing the presen	ueling that ca nt licensed ca	n be dischapacity: 20	arged to the

APPROVED OCT 3 0 1989

0.C.O.S.R.

QTP 300-\$32 Revision 2 October 1989

QUAD CITIES REFUELING INFORMATION REQUEST

1.	Unit:	Q2	Reload:	10	Cycle:	11
2.	Schedule	d date for	next refueling :	shutdown:		9-7-91
3.	Schedule	d date for	restart following	ng refueling:	Management	12-9-91
4.	Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment: NOT AS YET DETERMINED.					
5.	Scheduled date(s) for submitting proposed licensing action and supporting information:					
	NOT AS Y	ET DETERMIN	VE).			
6.	Important licensing onsiderations 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:					
	NONE AT	PRESENT TIM	Œ.			
7.	The numbe	r of fuel a	assembiles.			
	a. Numb	er of assen	nblies in core:		манения	724
	b. Numb	er of assem	mblies in spent	fuel pool:	*******	2011
8.	The present licenses sent 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. Lice	nsed storag	e capacity for s	spent fuel:	AMERICA SOCIETA	3897
	b. Plan	ned increas	e in licensed st	orage:		0
9.	The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity: 2008					

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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 Tower 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 Hea' 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