

AMS-94-09

April 6, 1994

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 March 1994.

Respectfully,

COMMONWEALTH EDISON COMPANY QUAD-CITIES NUCLEAR POWER STATION

Anthony M. Scott

System Engineering Supervisor

AMS/dak

Enclosure

cc: J. Martin, Regional Administrator

T. Taylor, Senior Resident Inspector

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QUAD-CITIES NUCLEAR POWER STATION

UNITS 1 AND 2

MONTHLY PERFORMANCE REPORT

March 1994

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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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 Matt Benson and Debra Kelley, telephone number 309-654-2241, extensions 2995 and 2240.

II. SUMMARY OF OPERATING EXPERIENCE

A. Unit One

Quad Cities Unit One began the month of March 1994 in coast down as it approached the refuel outage. On March 13, refuel outage Q1R13 was entered by tripping the turbine at 01:28 hours and manually scramming the reactor at 01:58 hours. The scheduled startup for Unit One is July 4, 1994.

Two load drops were performed on request from Bulk Power Operations (BPO) and one for administrative reasons but none caused the average daily unit power level to drop by 20% or greater.

B. Unit Two

Quad Cities Unit Two began the month of March 1994 at full load and remained on line through out the month.

Numerous load drops were performed for administrative reasons 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

Technical Specification Amendment No. 145 was issued on March 11, 1994 to Facility Operating License DPR-29 and Amendment No. 141 to Facility Operating License DPR-30 for Quad Cities Nuclear Power Station.

The amendments consist of changes to the Quad Cities Technical Specifications (TS) that will update the leakage test requirements of the Drywell Airlock to the standards of 10 CFR 50, Appendix J, Section III.D.2. This is in response to an Unresolved Item listed in Inspection Report Nos. 50-237/91032 and 50-249/91035.

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, System Component Description and work performed.

UNIT 1 & 1/2 MAINTENANCE SUMMARY

WORK PERFORMED	ng on grease line on MOV.	cleaned, and	embled, 1 lubricated	sealtite with stainless xible conduit.	switch.	ced caps.	stat on monitor.	d rebuilt pilot
WORK	Tightened fitting on grease pressure relief line on MOV	Removed plugs, cleaned, reinstalled.	Removed, disassembled, reassembled, and lubricated breaker.	Replaced sealtite with steel flexible conduit	Replaced limit s	Replaced 2 cracked caps.	Adjusted thermostat on monitor.	Disassembled and rebuilt pilot valves.
WORK REQUESTED	Tighten fitting on HPCI min flow valve to fix oil leak.	Repair oil leak on plugs of SBGT reactor building inlet valve.	Investigate/repair 1A RHRSW pump failure to start.	Repair damaged sealtite.	Troubleshoot/repair ACAD vent to SBGT valve. Valve would not open with control switch.	Replace cracked caps on 250VDC flame arrestors.	Investigate/repair drywell CAM heat tracing.	Rebuild scram pilot valves due to leakby on a half scram.
EPN#	1-2301-14	1/2-7505A	1-1001-65A	1-0030	1-2599-5B	1-8350	1-1701	1-0305-117
SYSTEM	2300	7500	1000	0030	2500	8350	1700	0300
NWR#	009662	010452	010911	011531	012419	013611	013791	014360

NWR#	SYSTEM	EPN#	WORK REQUESTED	WORK PERFORMED
Q14601	5700	1-5748B	Investigate B core spray room cooler TIC giving high temperature alarm in auto.	Changed set point on temperature switches.
Q14768	2400	1-2419-D	Repair torus CAM. Monitor indicates failure downscale.	Found bad relays in chassis. Replaced chassis.
Q14980	6700	1/2-6700-073	Repair 1B RHRSW pump breaker.	Replaced release latch monitoring switch, cleaned and lubricated disconnects.
Q15014	7500	1/2-7500	Troubleshoot/repair B SBGT failure to start in standby mode after time delay.	Exercised flow switch and checked calibration. Moved wiring to a slightly different location to allow freedom of movement for the bourdon tube.
Q15223	6700	1/2-6700	Repair 4kV breaker auxiliary switch assemblies.	Repaired assemblies.
Q15497	6600	1/2-6601- OTLS	Repair overspeed trip limit switch. Arm has worked loose.	Replaced missing cotter pin in arm nut.
Q60908	6700	1-6706-10	Repair/reject diesel generator breaker. Breaker does not actuate aux switch from the test position.	Rejected test linkage. New linkages will be installed.

UNIT 2 MAINTENANCE SUMMARY

NWR#	SYSTEM	EPN#	WORK REQUESTED	WORK PERFORMED
Q01780	2400	2-2419-C	Investigate/repair downscale alarm on local torus rad monitor.	Repaired loose nut and bolt heater connector. Calibrated monitor.
Q08028	0300	2-0305-126- 1847	Repair instrument air leak on scram inlet valve.	Replaced diaphragm.
Q08934	0756	2-0756- 32-57	Troubleshoot/repair bypassed LPRM.	Ran I/V curve to correct problem.
Q10058	0750	2-0750-7A 2-0750-7B 2-0750-7E 2-0750-7F	Troubleshoot/repair IRM's drawing wide bands on recorder.	Ground cables were installed to eliminate inadequate grounding problem.
Q13610	8350	2-8350	Replace cracked caps on 250VDC flame arrestors.	Replaced flame arrestors on batteries 93 and 94.
Q13791	- 0	2-1702	Investigate/repair drywell CAM heat tracing.	Adjusted thermostat on monitor.
Q13976	0300	2-0305-125- 3451 2-0305-126- 3451	Repair leakby on scram inlet valve.	Replaced accumulator, valve packing, seat ring, and plug.

NWR#	SYSTEM	EPN#	WORK REQUESTED	WORK PERFORMED
Q14113	2200	2-2252-12	Replace broken cover over diesel generator exciter cabinet rectifiers.	Straightened sheet metal out and installed fasteners to secure cover.
Q14160	0300	2-0305-126- 2639 2-0305-127- 2639	Troubleshoot/repair cause of rod drifting past "00".	Adjusted seat pressure on scram inlet and outlet valve.
Q14662	0300	2-0305-125- 3411	Repair HCU accumulator. Accumulator failed to hold a nitrogen charge.	Replaced accumulator, O-rings, and charging mort connector.
Q14771	2400	2-2402A	Repair hydrogen meter. Meter will not span.	Replaced Furogen analyzer cell, catalyst bed assembly, regulator diaphragm, and soft seat nozzle.
Q14893	2300	2-2301-3	Adjust limit switch on HPCI turbine steam supply isolation valve motor operator	Adjusted the open limit switch.
Q14955	1000	2-1001-65A	Repair 2A RHF inboard seal	Rebuilt inboard seal.
Q15221	0756	2-0756-1	Repair APRM #1. Reading unexpectedly increased from 97% to 99%.	Cleaned edge connector on both averaging cards.
Q15388	0756	2-0756-6	Troubleshoot/repair APRM #6 spiking high.	Cleaned connectors on both averaging cards.
Q15405	7500	2-7503	Repair SBGT reactor building inlet damper valve.	Found tripper finger assembly spring broken. Replaced motor.

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

Licensee Event Report Number	Date	Title of occurrence
94-004	02-01-94	RCIC INOP when Trip Throttle Valve is tripped. CANCELLED
94-004	01-03-94	Feedwater flow loops reading erroneously in the nonconservative direction due to possible erosion or damage to the feedwater nozzles or instrumentation inaccuracy and calibration.
94-005	03-14-94	1A MSIV failed LLRT testing.

UNIT 2

Licensee Event		
Report Number	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
- B. Average Daily Unit Power Level
- C. Unit Shutdowns and Power Reductions

APPENDIX C

OPERATING DATA REPORT

DOCKET NO. 50-254

UNIT One

DATE April 6, 1994

COMPLETED BY Matt Benson

TELEPHONE (309) 654-2241

OPERATING STATUS

0000 030194

- 1. REPORTING PERIOD: 2400 033194 GROSS HOURS IN REPORTING PERIOD: 744
- CURRENTLY AUTHORIZED POWER LEVEL (MWI): 2511 MAX > DEPEND > CAPACITY: 769
 DESIGN ELECTRICAL RATING (MWo-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	290.00	1706.00	151487.30
6. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	3421.90
7. HOURS GENERATOR ON LINE	289.50	1682.90	146979.20
8. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	909.20
9. CROSS THERMAL ENERGY GENERATED (MWH)	622185.60	3865794.10	317558981.30
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	202713.00	1265145.00	102963264.00
11. NET ELECTRICAL ENERGY GENERATED (MWH)	190067.00	1206708.00	97124706.00
12. REACTOR SERVICE FACTOR	38.98	78.98	78.66
13. REACTOR AVAILABILITY FACTOR	38.98	78.98	80.44
14. UNIT SERVICE FACTOR	38.91	77.91	76.32
15. UNIT AVAILABILITY FACTOR	38.91	77.91	76.80
16. UNIT CAPACITY FACTOR (Using MDC)	33.22	72.65	65.58
17. UNIT CAPACITY FACTOR (Using Design MWe)	32.38	70.81	63.92
18. UNIT FORCED OUTAGE RATE	0.00	1.33	6.25

- 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: 7-4-94
- 21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

	PORECAST	ACHIEVED	
INITIAL CRITICALITY			
INITIAL ELECTRICITY		A SA PROPERTY STANDARD STANDARD AND A PROPERTY OF THE PROPERTY	
COMMERCIAL OPERATION			

APPENDIX C

OPERATING DATA REPORT

DOCKET NO. 50-265

UNIT Two

DATE April 6, 1994

COMPLETED BY Matt Benson

TELEPHONE (309) 654-2241

OPERATING STATUS

0000 030194

- 1. REPORTING PERIOD: 2400 033194 GROSS HOURS IN REPORTING PERIOD: 744
- CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2511 MAX > DEPEND > CAPACITY: 769
 DESIGN ELECTRICAL RATING (MW6-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	1575.40	145476.45
6. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	2985.80
7. HOURS GENERATOR ON LINE	744.00	1547.20	141730,35
8. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	702.90
9. GROSS THERMAL ENERGY GENERATED (MWH)	1801868.00	3583788.90	306364750.80
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	586628.00	1164929.00	98474699.00
11. NET ELECTRICAL ENER TY GENERATED (MWH)	563177.00	1111539.00	93254099.00
12. REACTOR SERVICE FACTOR	100.00	72.94	76.16
13. REACTOR AVAILABILITY FACTOR	100.00	72.94	77.72
14. UNIT SERVICE FACTOR	100.00	71.63	74.20
15. UNIT AVAILABILITY FACTOR	100.00	71.63	74.57
16. UNIT CAPACITY FACTOR (Using MDC)	98.43	66.92	63.49
17. UNIT CAPACITY FACTOR (Using Design MWe)	95.94	65.22	61.88
18. UNIT FORCED OUTAGE RATE	0.00	28.37	8.81

- 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):

	PORECAST	ACHIEVED	
INITIAL CRITICALITY			
INITIAL ELECTRICITY			
COMMERCIAL OPERATION			

APPENDIX B AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-254 UNIT One

DATE April 6, 1994

		COMPLETED BY Matt Benson TELEPHONE (309) 654-2241
MONTH	March 1994	
DAY AVE	RAGE DAILY POWER LEVEL (MWe-Net)	DAY AVERAGE DAILY POWER LEVEL (MWe-Net)
1	695	178
2	692	188
3	689	198
4.	685	208
5	682	21
6	674	228
7.	674	23
8	673	248
9.	665	258
10	669	268
11	665	278
12.	598	288
13	- 1	298
14.	- 8	308
15.	- 8	318
16	- 8	

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

MONTH Manch 1994	DOCKET NO 50-265 UNIT Two DATE April 6, 1994 COMPLETED BY Matt Benson TELEPHONE (309) 654-2241
MONTH March 1994 DAY AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY AVERAGE DAILY POWER LEVEL (MWe-Net)
1	17756
2. 757	18
3. 757	19. 758
4. 756	20
5. 757	21
6. 755	22756
7. 757	23
8. 759	24
9. 739	25. 768
10. 755	26746
11	27
12	28
13. 756	29
14. 756	30
15. 757	31762
16. 758	

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

T NA	-	1 6,	1994 F	REPORT MONTH March					TELEPHONE 309-654-2241		
10.	DATE	TYPE F OR S	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT	SYSTEM	COMPONENT	CORRECTIVE ACTIONS/COMMENT		
4-04	3-13-94	S	454.5	С	2		***	****	Began Refuel Outage Q1R13		
				-							
			2000 D27 D20		and the second s	AND HER MANAGER ACTION AND AND AND AND AND AND AND AND AND AN					
				-30000 00000000000000000000000000000000				***********			
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***				-	-						

UNIT SHUTDOWNS AND POWER REDUCTIONS

NIT NA			1994 F	EPOR	T MONTH	March 1994			COMPLETED BY Matt Benson TELEPHONE 309-654-2241
NO.	DATE	TYPE F OR S	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT	SYSTEM	COMPONENT	CORRECTIVE ACTIONS/COMMENTS
								Name of the last	None for the month of March.
									And an article system that the second second as a second s
			MINIST CHRONOLIS DIEFER FRANKLISCHE STEEF (K.E.V.)						
		-							
		-							
								PARTE MATERIAL STREET,	
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		-				-		THE REAL PROPERTY AND	
		-						ACATEGO PROPERTIES	
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		-	provincial es sucrecidades de America que estados				-		
-		-							

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

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 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.

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 - American National Standards Institute ANSI APRM - Average Power Range Monitor ATWS - Anticipated Transient Without Scram BWR - Boiling Water Reactor - Control Rod Drive CRD - Electro-Hydraulic Control System EHC EOF - Emergency Operations Facility GSEP - Generating Stations Emergency Plan HFPA - 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 - Licensee Event Report LER 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 - Minimum Critical Power Ratio MCPR 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 - Rod Block Monitor RBM RCIC - Reactor Core Isolation Cooling System RHRS - Residual Heat Removal System RPS Reactor Protection System RWM - Rod Worth Minimizer - Standby Gas Treatment System SBGTS 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

Traversing Incore Probe
 Technical Support Center

TIP

TSC

QTP 300-S32 Revision 2 October 1989

QUAD CITIES REFUELING INFORMATION REQUEST

1.	Unit: Q1 Reload: 12	Cycle: 13
2.	Scheduled date for next refueling shutdown:	3-13-94
3.	Scheduled date for restart following refueling:	7-2-94
4.	Will refueling or resumption of operation thereaf Specification change or other license amendment:	ter require a Technical
	YES. Safety Limit MCPR to be changed from 1.06 to GE10 Fuel.	o 1.07 due to
5.	Scheduled date(s) for submitting proposed licensin supporting information:	ng action and
	11-19-93	
6.	Important licensing considerations associated with or different fuel design or supplier, unreviewed danalysis methods, significant changes in fuel design procedures:	actes as sanfaum.
	144 GE10 Fuel Bundles will be loaded during Q1R13.	
*		
	The number of fuel assemblies.	
	a. Number of assemblies in core:	724
	b. Number of assemblies in spent fuel pool:	1557
	The present licensed spent fuel pool storage capacitany increase in licensed storage capacity that has planned in number of fuel assemblies:	ty and the size of been requested or is
	a. Licensed storage capacity for spent fuel:	3657
	b. Planned increase in licensed storage:	0 ,1
	The projected date of the last refueling that can be spent fuel pool assuming the present licensed capaci	discharged to the 1;

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001 3:0 1969 Q.C.O.S.R.

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QTP 300-S32 Revision 2 October 1989

QUAD CITIES REFUELING INFORMATION REQUEST

1.	Unit: Q2	Reload: 12	Cycle: 13						
2.	Scheduled date for ne	ext refueling shutdown:	1-	29-95					
3.	Scheduled date for re	estart following refuelin	g:5-	21-95					
4.	Will refueling or res Specification change	sumption of operation the or other license amendme	reafter require a	Technical					
		CPR to be changed from 1.		o GE10 Fuel					
5.	Scheduled date(s) for supporting information	submitting proposed lice	ensing action and						
	7-28-94								
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:								
	GE10 Fuel will be load	ed during Q2R13.							
7.	The number of fuel ass	amhliac							
	a. Number of assembl		724						
	b. Number of assembl	ies in spent fuel pool:	2583	MINISTER OF STREET					
8.	The present licensed spany increase in license planned in number of fi	pent fuel pool storage ca ed storage capacity that uel assemblies:	pacity and the s has been request	ize of ed or is					
	a. Licensed storage of	capacity for spent fuel:	3897						
	b. Planned increase i	in licensec torage:	0						
9.	The projected date of t spent fuel pool assumin	the last refueling that c ng the present licensed c	an be discharged apacity: 2006	to the					

APPROVED OCT 3.0 1989

(final)