1/30/18

QUAD-CITIES NUCLEAR POWER STATION

UNITS 1 AND 2

MONTHLY PERFORMANCE REPORT

NOVEMBER 1978

COMMONWEALTH EDISON COMPANY

AND

NRC DOCKET NOS. 50-254 and 50-265

LICENSE NOS. DPR-29 and DPR-30

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1. 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 lowalilinois Gas & Electric Company. The Nuclear Steam Supply Systems are General Electric Company Boiling Water Reactors. The Architect/Engineer was Sargent & Lundy, Inc. and the primary construction contractor was United Engineers & Constructors. The condenser cooling method is a closed-cycle spray cenal, and 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 1 and 2 respectively were October 18, 1971 and April 26, 1972. Commercial generation of power began on February 18, 1973 for Unit 1 and March 10, 1973 for Unit 2.

This report was compiled by David Hannum. Telephone number 309-654-2241, Ext. 252.

11. SUMMARY OF OPERATING EXPERIENCE

A. Unit One

November 1: Unit One began the reporting period operating at an electrical load of 411 MWe.

November 2 - 10: Unit One held an average electrical load of 346 MWe due to spray canal load limitations.

November 11 - 25: Load was increased to 612 MWe and then held an average electrical load of 558 MWe.

November 26: Load was reduced to 400 MWe for main condenser flow reversal, and subsequently increased at 50 MWe/hr to 550 MWe.

November 27 - 30: Unit One held an average electrical load of 550 MWe throughout the remainder of the reporting period.

B. Unit Two

November 1: Unit Two began the reporting period operating at an electrical load of 509 MWe.

November 2 - 3: Unit Two held an average electrical load of 525 MWe.

November 4: Load was reduced to 500 MWe for the weekly turbine test.

November 5 - 10: Load was steadily increased to 687 MWe.

November 1:: Unit Two load was droppped to 407 MWe for control rod pattern adjustment.

November 12 - 22: Unit Two increased load on a preconditioning ramp of 3 MWe/hr until November 15 then held an average electrical load of 766 MWe through November 22.

November 23: Load was reduced to 400 MWe for control rod pattern adjustment.

November 24 - 26: Unit Two steadily increased load on a preconditioning

ramp of 3 Mwe/hr.

November 27 - 30: Unit Two held an average electrical load of 783 MWe for the remainder of the reporting period.

111. Plant or Procedure Changes, Yests, Experiments, and Safety Related Maintenance

- A. Amendments to Technical Specification during the reporting period include the revision Amendment No. 48 to DPR-29. The amendment revises Technical Specification to provide operating temperature and pressure limits in accordance with Appendix G, 10 CFR Part 50.
- B. Facility or Procedure Changes Requiring NRC Approval
 - There were no facility modifications or procedure changes which took place during the reporting period requiring approval of the NRC.
- C. Tests and Experiments Requiring NRC Approval
 - There were no tests or experiments performed during the reporting period requiring NRC approval.
- D. Other Changes, Tests, and Experiments
 - There were no facility modifications requiring reporting to the NRC which were completed this month.
 - On November 29, 1978 the Calgon CL-144 injection functional test was completed. The injection point was moved from the spray canal to the Unit One intake bay.
- E. Corrective Maintenance of Safety-Related Equipment
 - The following represents a tabular summary of the safety-related maintenance performed on Units 1 and 2 during the reporting period. The headings indicated in this summary include Nature of Maintenance and Work Request numbers, LER numbers, components, cause of malfunctions, results and effects on safe operation, and actions taken to prevent repetition.

W.R. NUMBER	LER NUMBER	COMPONENT	CAUSE OF MALFUNCTION	RESULTS & EFFECTS ON SAFE OPERATION	ACTION TAKEN TO PREVENT DEPETITION
Corrective 5065-78		CRD 30-03 Pressure Switch (PSI-305-130)	The pressure switch set point was out of calibration.	The alarm signal would not clear. Scram capa- bility not affected.	The switch was recalibrat
Corrective 5690-77		Diesel Generator 1/2-6601	The air regulator diaphram was worn.	The diaphram was leaking air. Diesel was operable.	The diaphram was replaced
Corrective 5695-77		Diesel Generator 1/2-6601	The solenoid valve was defective.	The solenoid valve was holding the air motor engaged for starting the diesel. Diesel was operable.	The valve was replaced.

W.R. NUMBER	LER NUMBER	COMPONENT	CAUSE OF MALFUNCTION	RESULTS & EFFECTS ON SAFE OPERATION	ACTION TAKEN TO PREVENT REPETITION
Corrective 4967-78		Diesel Generator Cooling Wtr Pump (2-6601)	The cooling wtr run light was broken off in the socket.	The indicating light was inoperable. Diesel was operable.	The light was removed and replaced.
Corrective 5064-78		HPCI Steam Supply Viv (2-2301-5)	The valve limits were out of calibration.	The valve was torqued out, just off the closed seat position. HPC1 was still operable.	The limits were rese. and the viv was stroled 3 times.
Corrective 5209-78		Refuel Bridge (2-834)	The tach drive generator coupling set screw was worn.	Fower was off while moving and lowering.	The set screw was replaced
Corrective 5276-78	R0-78-37/03L-0	Rx Bldg. to Suppression Chamber Vacuum Bkr. (2-1601-20A)	The solenoid valve was worn.	The vacuum bkr. valve would not open from the control room. The redundent 2-1601-208 valve was operable.	The solenoid valve was replaced.

IV. LICENSEE EVENT REPORTS

The following is a tabular summary of all license event reports for Quad-Cities Units One and Two during the reporting period which were submitted to the commission 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 One	
Licensee Event Report Number	Date of Occurrence	Title of Deviation
RO-78-31/03L	11-22-78	EHC Fluid Pressure Switch Drift
	Unit Two	
Licensee Event Report Number	Date of Occurrence	Title of Daviation
R0-78-37/03L	11-16-78	Reactor Suilding to Suppression Chamber Vacuum Breaker AO 2-1601-20A
RO-78-38/03L	11-25-78	Drywell Vent Valve Fail- ure AO 2-1601-23

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.

0,000

CIEBATING DATA BLOCKS

		DOCI	CT NO	050-2	54
			URIT	One	
			DATE	12-5-	78
		COMPLI	ETED BY	D. Ha	nnun
				(309)	654-2241
		161	LEPHONE _		
OPE	RATING STATUS 0001-781101 2400-781130				
2.	Reporting pariod: Gross hours	in reporting	period:_	720	
2.	Currently authorized power level (EMt): (MWe-Net): 7600 Design electrical re	2511 Mating (N. e-N	ex. depend et): 789	. cap	neity.
3.	Power level to which restricted (if any)	(Mile-Met):	NA		
4.	Reasons for restriction (if any):				
		This Month	Yr. to D	ate	Cumulative
5.	Number of hours reactor was critical	720	7717.		46588.9
6.	Reactor reserve shutdown hours	0	. 0		3329.6
7.	Hours generator on line	720	7573.	1	44198.9
8.	Unit reserve shutdown hours.	0	45.	2	889.4
3.	Gross thermal energy generated (MWH)	1166192	15334974	-	87612049
	Gross electrical engargy generated (MMH)	349519	4785253		28208969
11.	Not electrical Energy Generated	310398	4399591		26311109
12.	Reactor service factor	100.0	96.	3	80.1
13.	Reactor availability factor	100.0	96.	3	85.8.
14.	Unit service factor	100.0	94,	5	76.0
15.	Unit availability factor	100.0	95.	0	77.5
16.	Unit capacity factor (Using MDC)	56.1	71.	4	58.8
17.	Unit capacity fector (Using Des. MWa)	54.6	69.	6	57.3
10.	Unit forced betage rate	0,0	<u> </u>	9	83
19.	Shutdowns ashaduled over next 6 months (Type, date,	end dural	Con of	andt):
20.	If shutdown at end of report period, es	limated date	of starts	N N	Α
4 75	a had may be lower than 769 MMs during po the thoront performance of the apply so	eriods of hi		t Leap	

grenating para nerous

		200	1020	4.02
			UNIT Two	and the second second
			DATE 12-5	- 78
		COMPL	ETED BY D. H.	annum
		TE	LEPHONE (309)	654-2241
	PAYING STATUS 0001 781101 2400 781130		n no (tod) 200	
1 ×	Reporting period: Gross hour			
2.	Currently authorized power level (MWt) (MWe-Ket): 769a Design electrical	: 2511 M reting (M./e-1)	ax. depend. c: et): 789	opacity.
3.	Power level to which restricted (if an	y) (HMg-Het):	NA	
<i>t</i> i.,	Reasons for restriction (if any):			
		This Month	Yr. to Date	Cumulative
5.	Number of hours reactor was critical	720	6427.7	14632.4
6.	Reactor reserve shutdown hours	0.0	113.1	2995.0
7.	Hours genérator on line	720.0	6281.1	12358.0
8.	Unit reserve shutdown hours.	0.0	128.2	702.0
1.	Gross thermal energy generated (MMM)	1507661	13190712	87054905
	Gross electrical engargy generated (MW	11) 467115	4122984	27954499
	Net electrical Energy Generated	445196	3917902	26252850
2.	Reactor service factor	100.0	80.2	78.0
3.	Reactor availability factor	100.0	81.6	83.2
4.	Unit service factor	100.0	78,4	74.0
r.,	Unit availability factor	100.0	80.0	75.2
ő.	Unit capacity factor (Using MDC)	80.4	63.6	59.6
7.	Unit capacity factor (Using Des. MVe)	78.4	61.9	58.1
ð,	Unit forced outage rate	0.0	1.9	10.8
9,	Shutdown schuduled pror noxe 6 menchs			
0 .	If shutdown at end of report paried, e	stimated date	of atortups !	W.
Ti	the thornal performance of the error of	periods of hi		

		Docket No. 050-254
		Unit One
		. Date 12-7-78
,		Completed by D. Hannum
		Telephone (309) 654-22
HON	TH November	
DAY	AVERAGE DAILY POWER LEVEL (MW3-Net)	DAY AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	351	17. 490
2.	322	18. 488
3.	296	19. 491
li.	286	20. 509
5.	297	21 540
6.	297	22. 493
7.	305	23. 490
8.	302	. 24. 491
9.	290	25. 485 .
10.	295	26. 471
11,	478	27. 492
12.	478	28. 532
13.	478	29. 519
14.	494	30. 471
15.	499	31.
16.	492	AFIRO
	INSTRUCTIONS	JUN 2 8 10
	On this form, but the average daily unit power ! nearest whole me; awatt.	evel in MWe-Net for each day in the reporting in Pith Colonial th reporting month. Note that when maximum dependable cap

used for the net electrical rating of the unit, there may be occasions when the daily average power level exceeds the 100% line for the restricted power level line). In their cases, the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

1 (final)

APPENDIX B AVERAGE DAILY UNIT-POWER LEVEL

Revision 4 June 1976

Docket No. 050-265

			DOCKEL NO.	
			Unit	Two
			. Date	12-7-78
			Completed by	D. Hannum
			Telephone	(309) 654-224
MONT	TH November			
	A CONTRACTOR			
DAY	AVERAGE DAILY POWER LEVEL (MWa-Net)	DAY	AVERAGE DAILY (MWe-Ne	
1.	527	17.	721	
2.	498	18.	711	
3.	513	19.	712	
4.	457	20.	735	
5.	394	21	761	
6.	532	22.	730	
7.	621	23.	454	
8.	623	. 24.	544	
9.	733	25.	610	
10.	551	26.	688	
11.	403	27.	730	
12.	467	28.	757	
13.	546	29.	769	
14.	612	30.	736	
15.	691	31.		
16.	725			APPROV
	INSTRUCTIONS On this form, list the average daily unit ponearest whole megawatt. These figures will be used to plot a graph used for the net electrical rating of the unitional line for the restricted power level 1	for each reporting month. No	ote that when musting	ium dependable capa

1 (final)

footnoted to explain the apparent anomaly.

	-					
QTP 30C-513 Revision 5 March 1978	D. Hannum	(309) 654-2241		COMMENTS		
RC, Mar	COMPLETED BY	TELEPHONE		CORRECTIVE ACTIONS/COMMENTS		
EDUCTIONS		826			None	
DIX D POWER RI		November 1978		СОМРОИЕИТ		-1-(finai)
APPENT WNS AND				CODE)-1-
UNIT SHUTDOWNS AND POWER REDUCTIONS		REPORT MONTH		LICENSEE EVENT REPORT NO.		
				METHOD OF SHUTTING DOWN REACTOR		
1	One	1		иогазя		
050-254	Quad Cities C	12-5-78		TYPE S DURATION (HOURS)		
DOCKET NO.	UNIT NAME	31		DATE		
8	NO	DATE	-51	NO.		

OUCTIONS Revision 5 March 1973	COMPLETED BY D. Hannum	378 TELEPHONE (309) 654-2241		CORRECTIVE ACTIONS/COMMENTS	Load was reduced to 500 MWe for the weekly turbine test.	Load was reduced to 407 MWe for a rod pattern adjustment.	Load was reduced to 400 MWe for a rod pattern adjustment.			
APPENDIX D SHUTDOWNS AND POWER REDUCTIONS		November 1978		COMPONENT						
APPEN WNS AN		NTH		SYSTEM				•		
UNIT SHUTDO		REPORT MONTH		LICENSEE EVENT REPORT NO.						
				METHOD OF SHUTTING SOWN REACTOR						
	1	1		NOZABA						
65 DPR-30	Cities Two	78		DURATION (HOURS)						
050-265	Quad	12-5-78		7YPE F 0R S						-
DOCKET NO.	UNIT NAME	ш Ъ		DATE	11-4-78	11-11-78	11-23-78			
00	NO	DATE	4	NO.	27	28	29			

-:-(final)

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.
- B. Control Rod Drive Scram Timing Data.

A. Main Steam Relief Valve Operations

 There were no main steam relief valve operations performed during 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 is 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 was performed with reactor pressure greater than 800 psig.

DATE	NUMBER OF RODS		TIME IN			Max. Time for 90%			
		5	20	50	90	Insertion	DECSRIPTION		
		0.375	0.900	2.00	3.5	7	Technical Specification 3.3.C.1. & 3.3.C.2. (Average Scram Insert Time		
11-3-78	89	0.29	0.66	1.43	2.53	N-9 5.95	Hot Scram Time Seq. B.		

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

1.	Unit: 1 Reload: 4 Cycle: 5
2.	Scheduled date for next refueling shutdown: January 12, 1979 (Shutdown
3.	Scheduled date for restart following refueling: April 12, 1979 (Startup 800
4.	Will refueling or resumption of operation thereafter require a technical specification change or other license amendment: Yes; See attached checklist for Tech. Spec. and License Amendment.
5.	Scheduled date(s) for submitting proposed licensing action and supporting information: The QC1 R4 licensing submittal is scheduled for Nov. 11, 1978.
6.	Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance enalysis methods, significant changes in fuel design, new operating procedures:
	New fuel designs: Retrofit 8 x 8 fuel (192)
	a) nat. U at bundle top and bottom, b) two larger water rods, c) new enrichment distribution.
	Last Test Assemblies (4)
	for GE PCI-resistant design development program.
7.	The number of fuel assemblies.
	a. Number of assemblies in core:
	b. Number of assemblies in spent fuel pool: 151
3.	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:
	b. Planned increase in licensed storage: None
9.	The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity: Last refueling date with present capacity: March. 85. (end of batch discharge capability)

PREPARATION SCHEDULE

UNIT

3/9/79

QTP 300-S33 Revision 1 March 1973

RELOAD CYCLE - ACTIVITY RESPONSIBILITY CENTER DATE NFS receives draft Licensing Submittal from GE GE 15/78 Transmit copy of draft to Station for Comments NES Transmit NFS and Site comments/questions to GE MES Begin Tech. Spec. changes, Safety Evaluation and Cover Letter /29/78 NES NFS receives final Licensing Submittal and answers to CECo questions from CE GE Complete final NES review of Licensing Submittal and answers to CECo questions 0/30/78 NFS Transmit complete package for on/off site review 1/1/78 NFS On-site review completed Station 1/3/78 Off-site review completed. PSA 11/6//8 Completed licensing package received by NRC NIA 11/11/78 90 days Anticipated unit shutdown 1/12/79 28 days Receipt of operating License 2/9/79

Anticipated Unit Startup - Assumes

Prepared	by	MC	NFS/BW
D.	ate	12/23/77	

56 day outage

weeks

PRELIMINARY CHECKLIST FOR RELOAD LICENSE AMENDMENTS

UNIT: Quad-Cities 1 |

RELOAD: 4 | 5 ! CYCLE:

1	Item	Page	Require Changes
×	Scram Reactivity	4	Generalize wording and reference the submit.
NA NA	Safety Valve Setpoints LSSS Bases	1.2/2.2-1 1.2/2.2-2.3	None. Adequate pressure margin. None, if the peak vessel pressure is 1325 psig. during S.V. sizing trans.
x x	RBM Setpoints LCO Bases	3.2/4.2-14 3.2/4.2-7 3.2/4.2-8	Change to (.65w+XX) as regid. Change operability to XX% Change Reference 1 to NEDO- XXXXX.
NA	Auto Flow Control	3.3/4.3-5	None. Stability analysis not limiting.
NA	Bases	3.3/4.3-11	None.
X	MAPLHCR LCO	Fig. 3.5.1 (shts. 1 to 3)	*Revise curves to reflect new analyses.
X	Bases	3.5/4.5-14	*Change references to reflective analyses of NEDO-24046.
×	MCPR LCO	3.5/4.5-10	. New values: ##1.XX (7 x 7) 1.XX (8 x 8)
В	Bases	3.5/4.5-14	Generalize description of limiting transient(s).

n IMPLHGR changes are being handled under separate cover.

.. . at . ten are indicated as "XX..."

^{##} Includes additional C.XX CPR penalty for Fuel Loading Error Accident (MRC interim liceusing position).

QUAD-CITIES REFUELING INFORMATION REQUEST

1.	Unit: 2 Reload: 4	cycle	There estades
2.	Scheduled date for next refueling shutde	own:	September 30, 1979 (shutdown EOC4)
3.	Scheduled date for restart following re	fueling:	January 20,1980 (Startus BOCS)
<i>L</i> ₁ .	specification change or other license at to Reload 3 Cycle 4.	mendment. Sim	Tar Tech. Spec. Changes
	information: Reload Submittal to be protoshutdown.	ciated with re	fueling, e.g., new or or performance analysis
	New fuel designs: Retrofit 8 x 8 fuel (
. 7.	The number of fuel assemblies.		
	a. Number of assemblies in core:		.724
	b. Number of assemblies in spent fuel	pool:	745 -
8.	The present licensed spant fuel pool st increase in licensed storage capacity t in number of fuel assemblies:	torage capacit	y and the size of any requested or is planned
	a. Licensed storage capacity for spent		1450
	b. Planned increase in licensed storage		None.
9.	The projected date of the last refueling	ng that can be	discharged to the

present cap. ty: September, 85.

spent fuel rool assuming the present licensed capacity: Last refueling date with

UNIT OC 2 3 RELOAD CYCLE

DATE RES	PONSIBILITY CENT	TER ACTIVITY	
10/6/77	GE PFS	NFS receives draft Licensing Submittal from GE Transmit copy of draft to sfor comments.	Station
10/20/77	NFS NFS	Transmit NFS and Site comments/questions to GE Begin Tech. Spec. changes, Evaluation and Cover Letter.	
11/3/77	GE NFS	NFS receives final Licensing Submittal and answers to CECo questions from Complete final NFS review of Licensing Submittal and answers to CECo ques	CE.
11/8/77	NFS	Transmit complete package for on/off site review	
11/16/77	Station	On-site review completed	
11/18/77	PSA	Off/site review completed	
12/1/77	NI.A	Completed Licensing package received by NRC	
1/16/78	-	Anticipated unit shutdown 28 days	days
3/5/78	-	Receipt of operating License	
3/15/78	- 1	Anticipated Unit Startup - Assumes 8 Weeks	

Prepared by _	JAS .	NF5/BW
D.:	2/23/78	
-1-(final)		

PRELIMINARY CHECKLIST FOR RELOAD LICENSE AMENDMENTS :

UNIT: Quad-Cities 2

RELOAD: 3 | CYCLE: 4 |

	. Item	Page	Require Changes
- X	Scram Reactivity	4	Generalize wording and reference the submit, NEDO-24063.
NA X	Safety Valve Setpoints LSSS Bases	1.2/2.2-1	None. Adequate pressure margin. Clarify and add bounding peak pressure.
x x	RBM Setpoints LCO Bases	3.2/4.2-14 3.2/4.2-7 3.2/4.2-8	Change to (.65w+42) Change operability to 30%. Change Reference 1 to NEDO-24063.
NA NA	Auto Flow Control LCO Bases	3.3/4.3-5	None. Stability analysis not limiting. None.
×	MAPLHGR LCO Bases	Fig. 3.5.1 (shts. 1 to 3) 3.5/4.5-14	*Revise curves to reflect new analyses. *Change references to reflect new analyses of NEDO-24046.
X		3.5/4.5-10	New values: **1.33 (7 x 7) 1.35 (8 x 8) Generalize description of limiting transfent(s).

^{*} PAPLHOR changes are being handled under separate cover.

to interim licensing position).

VIII GLOSSARY

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

CRD		Control Rod Drive System
SBLC		Standby Liquid Control System
MSIV		Main Steam Isolation Valve
RHRS	-	Residual Heat Removal System
RCIC	1	Reactor Core Isolation Cooling System
HPCI	-	High Pressure Coolant Injection System
SRM	2.3	Source Range Monitor
IRM	-	Intermediate Range Monitor
LPRM	-	Local Power Range Monitor
APRM	-	Average Power Range Monitor
TIP	-	Traveling Incore Probe
RBCCW	-	Reactor Building Closed Cooling Water System
TBCCW	-	Turbine Building Closed Cooling Water System
RWM	-	Rod Worth Minimizer
SBGTS	200	Standby Gas Treatment System
HEPA	2	High-Efficientry Particulate Filter
RPS	-	Reactor Protection System
IPCLRT	-	Integrated Primary Containment Leak Rate Test
LPCI	- "	Low Pressure Coolant Injection Mode of RHRS
RBM	-	Rod Block Monitor
BWR		Boiling Water Reactor
151		In-Service Inspection

Maximum Permissable Concentration

MPC

PCI	-	Primary Containment Isolation
SDC	-	Shutdown Cooling Mode of RHRS
LLRT	-	Local Leak Rate Testing
MAPLHGR		Maximum Average Planar Linear Heat Generation Rate
R.O.	-1	Reportable Occurrence
DW	-	Drywell
RX		Reactor
EHC		Electro-Hydraulic Control System
MCPR		Minimum Critical Power Ratio
PCIOMR		Preconditioning Interim Operating Management Recommendations
LER	*	Licensee Event Report
ANSI	*/*/	American National Standards Institute
NIOSH		National Institute for Occupational Safety and Health
ACAD/CAM		Atmospheric Containment Atmospheric Dilution/Containment Atmospheric Monitoring