

August 7, 1990

ECE LTR: #90-529

Director, Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

Attention: Document Control Desk

Subject: Monthly Operating Data Report

Dresden Nuclear Power Station Commonwealth Edison Company

Docket Nos. 50-010, 50-237, and 50-249

Gentlemen:

Enclosed is the <u>Dresden Nuclear Power Station Monthly Operating Summary Report</u> for July, 1990. This information is supplied to your office in accordance with the instructions set forth in Regulatory Guide 1.16. Please note that the report contains information which had been previously submitted to your attention on an annual basis in accordance with 10CFR50.59.

Sincerely,

13. Mover for E. D. Eenigenburg Station Manager Dresden Nuclear Power Station

EDE:GP:dam Enclosure

cc: U.S. NRC Region III Office
Illinois Dept. of Nuclear Safety, State of Illinois
U.S. NRC, Document Management Branch
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Vice Pres. - BWR Operations
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D. Eggett - Reliability Programs
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File/NRC Op. Data
File/Numerical

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SUPPARY OF OPERATING EXPERIENCE, CHANGES, TESTS, AND EXPERIMENTS PER REGULATORY GUIDE 1.16 AND 10 CFR 50.59

FOR

DRESDEN NUCLEAR POWER STATION COMMONWEALTH EDISON COMPANY FOR JULY 1990

UNIT	DOCKET	LICENSE
1	050-010	DPR-2
2	050-237	DPR-19
3	050-249	DPR-25

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1.0 Introduction

Dresden Nuclear Power Station is a three reactor generating facility owned and operated by the Commonwealth Edison Company of Chicago, Illinois. Dresden Station is located at the confluence of the Kankakee and Des Plaines Rivers, in Grundy County, near Morris, Illinois.

Dresden Unit 1 is a General Electric Boiling Water Reactor with a design net electrical output rating of 200 megawatts electrical (MWe). The unit is retired in place with all nuclear fuel removed from the reactor vessel. Therefore, no Unit 1 operating data is provided in this report.

Dresden Units 2 and 3 are General Electric Boiling Water Reactors with design net electrical output ratings of 794 MWe each.

Waste heat is rejected to a man-made cooling lake using the Kankakee River for make-up and the Illinois River for blowdown.

The Architect-Engineer for Dresden Units 2 and 3 was Sargent and Lundy of Chicago, Illinois.

This report wer compiled by Donald C. Maxwell of the Dresden Technical Staff, telephone number (815)942-2920 extension 2489.

2.0 SUMMARY OF OPERATING EXPERIENCE FO. JULY, 1990

2.1 UNIT 2 MONTHLY OPERATING EXPERIENCE SUMMARY

07-01-90 to 07-31-90

Unit 2 entered the month on line and operating at approximately 815 MWe. The unit operated in Economic Generation Control or at loads requested by the System Load Dispatcher for the remainder of the month with an availability of 100% and a capacity factor of 84.4%.

SUMMARY OF OPERATING EXPERIENCE FOR JULY, 1990

2.2 UNIT 3 MONTHLY OPERATING EXPERIENCE SUMMARY

07-01-90 to 07-03-90

Unit 3 entered the month off line to replace the main turbine thrust bearing, replace Control Rod Drive H-10, replace the main power transformer 'C' phase bushing and completion of various activities pre-scheduled for the short outage.

07-04-90 to 07-31-90

The reactor was made critical at 1728 hours on 7-4-90 and the generator was synchronized at 1150 hours on 7-5-90. The unit steadily increased loads through 7-9-90 and operated the remainder of the month in Economic Generation Control or at loads requested by the System Load Dispatcher with an availability of 85.5% and a capacity factor of 76.7%.

3.0 OPERATING DATA REPORT

3.1 OPERATING DATA REPORT - UNIT TWO

DOCKET No. 050-237 DATE August 1, 1990 COMPLETED BY D. C. Maxwell TELEPHONE 815/942-2920

OPERATING STATUS

1. REPORTING PERIOD: JULY, 1990 GROSS HOURS IN REPORTING PERIOD

744

2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 2,527 MAX DEPEND CAPACITY (MWe-Net)

772

DESIGN ELECTRICAL RATING (MW#-Net) 794

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

REPORTING PERIOD DATA

		This Month	Yr-to-Date	Cumulative
5.	TIME REACTOR CRITICAL (HOURS)	744.0	4,814.7	135,594.9
6.	TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
7.	TIME GENERATOR ON-LINE (HOURS)	744.0	4,790.7	129.842.2
8.	TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
9.	'HERMAL ENERGY GENERATED (MWHt-GROSS)	1,649,284	11,262,785	269,379,976
0.	LECTRICAL ENERGY GENERATED (MWHe GROSS)	523,715	3,603,312	86,097,661
1.	LLECTRICAL ENERGY GENERATED (MWHe-NET)	496,779	3,432,016	81,420,180
2.	REACTOR SERVICE FACTOR (%)	100.0	94.6	76.5
3.	REACTOR AVAILABILITY FACTOR (%)	100.0	94.6	76.5
4.	SERVICE FACTOR (%)	100.0	94.2	73.3
5.	AVAILABILITY FACTOR	100.0	94.2	73.3
6.	CAPACITY FACTOR (USING MDC) (%)	86.5	87.4	59.5
7.	CAPACITY FACTOR (USING DESIGN MWe) (%)	84.1	85.0	57.9
8.	FORCED OUTAGE FACTOR (%)	0.0	5.8	10.7

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

REFUELING OUTAGE CURRENTLY SCHEDULED for 9-23-90 thru 12-04-90

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP N/A

3.0 OPERATING DATA REPORT

3.2 OPERATING DATA REPORT - UNIT THREE

DOCKET NO. 050-249
DATE August 1. 1990
COMPLETED BY D.C. Maxwell
TELEPHONE 815/942-2920

OPERATING STATUS

1. REPORTING PERIOD: JULY, 1990 GROSS HOURS IN REPORTING PERIOD 744

2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 2,527 MAX DEPEND CAPACITY (MWe-Net) 773
DESIGN ELECTRICAL RATING (MWe-Net) 794

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

REPORTING PERIOD DATA

		This Month	7r-to-Date	Cumulative
5.	TIME REACTOR CRITICAL (HOURS)	654.5	3,817.9	124,052.3
6.	TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
7.	TIME GENERATOR ON-LINE (HOURS)	636.2	3,662.3	116,024.5
8.	TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
	THERMAL ENERGY GENERATED (MWHt-GROSS)	1,462,701	8,502,419	240,129,839
).	ELECTRICAL ENERGY GENERATED (MWHe GROSS)	475,098	2,749,349	77,461,594
	ELECTRICAL ENERGY GENERATED (MWHe-NET)	451,213	2,613,912	73,469,283
2 .	REACTOR SERVICE FACTOR (%)	88.0	75.1	74.4
3.	REACTOR AVAILABILITY FACTOR (%)	89.0	75.1	74.4
٠.	SERVICE FACTOR (%)	85.5	72.0	69.6
١.	AVAILABILITY FACTOR	85.5	72.0	69.6
	CAPACITY FACTOR (USING MDC) (%)	78.5	66.5	57.0
	CAPACITY FACTOR (USING DESIGN MWe) (%)	76.4	64.7	55.5
3.	FORCED OUTAGE FACTOR (%)	0.	7.6	12.0

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

NONE

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP N/A

3.3 AVERAGE DAILY UNIT POWER LEVEL

	DO	OCKET NO. 050-237
		UNIT_II
		DATE August 1, 1990
	cox	MPLETED BY D.C. Maxwell
		TELEPHONE 815/942-2920
JULY: 1990		
AVERAGE IAILY POWER LEVEL (Mwe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
692	17	719
745	18	705
725	19	709
667	20	621
572	21	680
593	22	622
565	23	685
589	24	685
528	25	673
670	26	664
720	27	673
730	28	670
728	29	665
727	30	650
719	31	622
724		
	(Mwe-Net) 692 745 725 667 572 593 565 589 528 670 720 730 728 727	JULY: 1990 AVERAGE TAILY POWER LEVEL (Mwe-Net) 692 17 745 18 725 19 667 20 572 21 593 22 565 23 589 24 528 25 670 26 720 27 730 28 728 29 727 30 719 31

3.4 AVERAGE DAILY UNIT POWER LEVEL

			DOCKET NO. 050-249
			UNIT_III
			DATE August 1, 1990
			COMPLETED BY D.C. Maxwell
			TELEPHONE_815/942-2920
MONTH	JULY, 1990		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
ı	0	17	764
2	0	18	758
3	0	19	715
4	0	20	726
5	148	21	701
6	544	22	635
7 _	540	23	750
8	665	24	782
9	763	25	781
10 _	769	26	775
11	747	27	746
12	744	28	756
13	739	29	740
14	746	30	736
15	738	31	617
16	743		

3.5 UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-237 UNIT NAME DRESDEN UNIT II DATE August 1, 1990 COMPLETED BY D. C. Maxwell TELEPHONE (815)942-2920

REPORT MONTH JULY, 1990

NO.	DATE	TYPE ¹	DURATION (HOURS)	REASON ²	METHOD OF SHUTTING DOWN REACTOR ³	LICENSEE EVENT REPORT #	SYSTEM CODE	COMPONENT	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
	NONE								
						1			

F: Forced S: Scheduled

Reason:

2

A-Equipment Failure (Explain)

p-Maintenance or Test

C-Refueling

D-Regulatory Restriction

E-Operator Training & Licensee Examination

F-Administrative

G-Operational Error

H-Other (Explain)

Method:

3

1-Manual

2-Manual Scram

3-Automatic Scram

4-Other (Explain)

5-Load Reduction

Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5 Exhibit I - Same Source

ZR16/10

3.6 UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-249 UNIT NAME DRESDEN UNIT III DATE August 1, 1990

COMPLETED BY D. C. Maxwell

TELEPHONE (815)942-2920

REPORT MONTH JULY, 1990

NO.	DATE	TYPE ¹	DURATION (HOURS)	REASON ²	METHOD OF SHUTTING DOWN REACTOR ³	LICENSEE EVENT REPORT #	SYSTEM CODE	COMPONENT CODE	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
4	06-30-90	S	107.8 (107:50)	В	1	N/A	N/A	N/A	Main Turbine thrust bearing replacement and main transformer bushing replacement.

F: Forced

S: Scheduled

2 Reason:

A-Equipment Failure (Explain)

B-Maintenance or Test

C-Refueling

D-Regulatory Restriction

E-Operator Training & Licensee Examination

F-Administrative G-Operational Error H-Other (Explain)

3 Method:

1-Manual

2-Manual Scram

3-Automatic Scram 4-Other (Explain)

5-Load Reduction

Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File

(NUREG-0161)

5 Exhibit I - Same Source

3.7 COMMONWEALTH EDISON COMPANY - DRESDEN NUCLEAR POWER STATION

MAXIMUM DAILY ELECTRICAL LOAD FORM FOR THE MONTH OF JULY, 1990

AY	HOUR ENDING	MAXIMUM DAILY LOAD
1	2000	791,100
2	0500	789,100
3	0800	770,000
4	0900	738,900
5	2300	1,047,700
6	1600	1,315,900
7	1700	1.282.300
8	2300	1,372,600
9	2400	1,450,200
10	1000	1.515.100
11	1400	1,591,500
12	0400	1.548.400
13	2400	1,541,600
14	1300	1,580,700
15	1400	1,545,900
16	0100	1.537.900
1.7	1100	1,565,900
18	1300	1,567,400
19	1600	1,549,600
20	1200	1,568,900
21	1300	1,528,900
22	1800	1,490,500
23	1400	1,535,700
24	1600	1,554,300
25	1400	1,538,500
26	0700	1.534.500
27	0600	1,490,500
28	1600	1,521,100
29	0100	1,520,800
30	0800	1,494,700
31	2300	1,454,900

4.0 UNIQUE REPORTING REQUIREMENTS

4.1 MAIN STEAM RELIEF VALVE OPERATIONS

Relief valve operations during the reporting period, July, 1990, are summarized in the following table. The table includes information as to which relief valve was actuated, how it was actuated, and the circumstances resulting in its actuation.

			No. and Type		
		Valves	of	Plant	Description
Unit	Date	Actuated	Actuations	Conditions	of Events

- No Unit 2 Main Steam Relief and/or safety valve actuations occurred during this reporting period.
- No Unit 3 Main Steam Relief and/or safety valve actuations occurred during this reporting period.
- 4.2 OFF-SITE DOSE CALCULATION MANUAL (ODCM) CHANGES

 No ODCM changes were reported for the month of July, 1990.
- 4.3 MAJOR CHANGES TO THE RADIOACTIVE WASTE TREATMENT SYSTEMS

 The significant upgrade to the Dresden Radioactive Waste System is continuing and further details will be reported as they occur.
- 4.4 FAILED FUEL ELEMENT INDICATIONS
 4.4.1 Unit 2

Dresden Unit 2 fuel performance during July, 1990 continued to show no indications of leaking fuel. This is based on the sum of the activities of the six noble gases as measured at the recombiner. Based on the reported data, Unit 2 had acceptable fuel performance.

4.4.2 Unit 3

Dresden Unit 3 fuel performance during July, 1990 continued to show no indications of leaking fuel. This is based on the sum of the activities of the six noble gases as measured at the recombiner. Based on the reported data, Unit 3 had acceptable fuel performance.

5.0 PLANT OR PROCEDURE CHANGES, TESTS, EXPERIMENTS, AND SAFETY RELATED MAINTENANCE

- 5.1 Amendments to Facility License or Technical Specifications
- 5.1.1. Unit 2 Amendment 111, Dated July 27, 1990

The NRC has approved Technical Specification Amendment #111 for Unit 2. This amendment revises the functional test surveillance interval for RPS Electrical Protection Assemblies. The current interval for functional testing is every six (6) months; the revised interval is every cold shutdown which extends for twenty-four (24) hours or longer, if not performed in the previous six (6) months.

5.1.2. Unit 3 Amendment 106, Dated July 18, 1990

The NRC has approved Technical Specification Amendment #106 for Unit 3. This amendment extends the plant license to January 12, 2011, which is ten (10) years longer than had been previously approved.

5.1.3. Unit 3 Amendment 107, Dated July 27, 1990

The NRC has approved Technical Specification Amendment #107 for Unit 3. This amendment revises the functional test surveillance interval for RPS Electrical Protection Assemblies. The current interval for functional testing is every six (6) months; the revised interval is every cold shutdown which extends for twenty-four (24) hours or longer, if not performed in the previous six (6) months.

5.2 Changes to Procedures Which are Described in the FSAR (Units 2 and 3)

Table 5.2.1, attached, summarizes the revisions to procedures described in the FSAR which were approved during the July, 1990 reporting period.

TABLE 5.2.1_
CFANGES TO PROCEDURES WHICH ARE DESCRIBED IN THE FSAR (UNITS 2 AND 3) FOR JULY, 1990

PROCEDURE TYPE	PROCEDURE NO.	PROCEDURE TITLE/DESCRIPTION	SUMMARY OF CHANGES
Dresden Operating Surveillarce	DOS 1500-06	LPCI System Pump Operability Test with Torus Available	2

NOTES: 1. Administrative change; intent of procedure unchanged.

2. Changed for clarification, intent of procedure unchanged.

3. Changed to incorporate requirements for new equipment; intent of procedure unchanged

4. Changed to implement improved testing/calibration methodology; intent of procedure unchanged.

5.3 Significant tests and experiments not described in the FSAR (Units 2 & 3)

Significant special procedures involving tests not described in the FSAR which were approved during the month of July, 1990 are listed below.

Procedure No. Procedure Title/Description

SP 90-06-91 Drain Fuel Pool Filter Inlet Siping to Waste Collector Tank

The purpose of this procedure was to detail the steps necessary to drain the Fuel Pool Filter Inlet Piping to the Waste Collector Tank. This procedure will remain in effect until Unit 2 & Unit 3 Fuel Pool Piping has been replaced as part of the Radwaste Upgrade Project.

5.4 Safety Related Maintenance (Unit 2 and 3)

Safety related maintenance activities for July, 1990 are summarized in the attached tables.

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201-22A AUXILIARY 1001-22A AUXILIARY 144.15	CORRECTIVE WR D83706	N/ts	1		REPLACED AUX CONTACTS. GREASED PLASTIC SI IDES WITH AERDSHELL
	PREVENTIVE MR D85113	H/H			REINSTALLED NEW SS ACCUM, LUB UN THICLAE
305-38-59 0-000 38-59 (K-15)	COPRECTIVE WR D85606	N/A		-	REPLACED ACCUM. NEW O-KINGS AND LUGED POLTS
TWOY PURP BREAKER	CORRECTIVE MR 085676	N/A	112		REPLACED DISC
CUMULATOR N-11 (50-43)	CHEFECTIVE WR D85905	N/A			TUSTALLED NEW ACCUMULATION WITH CARCIAGE TOOL. APPLIED THIN FILM OF AFFROVED O-RING LUBRICANT TO NEW O-RINGS
24	COPRECTIVE WR E85906	11.7g	132.50		CI EANED COMMECTORS
301-28	CORPECTIVE WR 086072	N/A			INSTALLED EXTERNAL AIR SUPPLY TO STROKE VALUE
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METAL UNIT CHANCE	(A)	6 1	908	28	NEP NEP	REF	FRP FILE BAI		RAN	(Ab)
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FINE EGUL CAT	MAINTENANCE	LER OF BUTAGE	CAN. SECTION RESULT	CORRECTIVE ACTION
CONTINUE ROD DRIVE	CORRECTIVE MR 074897	ила		REPLACED CRD AND REBUILT
L13 1626 108UB W.R. LEVEL TRANSMITTER 18818	CURRECTIVE WR D84768	H/A		REPLACED AMPLIFIER AND CALLERANIONS RUARDS AND RECALIENATED INANSMITTER
3-5741-38 REACTOR BUILDING USNI THEFT OF DANFER	CORRECTIVE HRC 089366	RZA		REBUILT VERSA VALVE AND CYLTHBER
S-11026 Seric Plup oil Sight Glass	CORNECTIVE MR D90044	#.H	E	INSTALLED NEW SIGHT GAUGE
- VALVE M03-1001-28	CORRECTIVE MR D90256	N/A		ADJUSTED PACKING. STROKED VALUE AND LUBED STEM
	CORRECTIVE WR D90257	W. W.		ADJUSTED PACKING. STROKED VALVE AND
	CURRECTIVE MR D90410	N/A		REPACKED AND ADJUSTED FUMP
2/3-03 ACC HACHER BOLTS	PSEVENTIVE MK 092031	E/A -		TORQUED ALL ANCHOR BRILTS
2/3-03ACC HEU DEST BANK ANCHOR BULTS	PREVENTIVE MR D92032	M/A		TURDUEL ALL ANCINDR BOLTS
3-252-3940 490V BREAKER ON BUS 39 RESERVE FEED TO MCC 26-4	FIGUENTIVE MR 092785	RZA		TESTED OVERCURRENT TRIP DEVICES. FORMER

Smill diant which we

NATURE OF MAINTENANCE

CORRECTIVE MR D93135

FLON ISOLATION SHITCH

LER GE OUTAGE NUMBER

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CORRECTIVE ACTION

REPLACED INDICATING SMITCH HOVEMENT AND

REPLACED ANTLIFIER BUARD AND CALIBRATED TRANSMITTER AND SQUARE ROUT CONVERTER

11/6

CORRECTIVE MR 093448

5.5 Completed Safety Related Modifications (Units 2 and 3)

Unit 2 and Unit 3 safety related modification packages closed during the month of July, 1990 are listed below. Only modifications which have been completely closed are listed; modifications which are authorized for use but not completely closed will be reported based on the date of their final closure. For ease of reference, the changes have been identified by their design change control modification number.

Modification No. Description

M12-3-85-83 Replace Existing 250V Batteries & Battery Rack

This modification was performed to replace the existing 250V DC batteries with 116 cell lead calcium batteries and replace the existing rack with a specifically designed, seismic qualified battery rack. This was accomplished to provide sufficient DC power for the worst case accident profile, and to provide the required seismic qualification, thus assuring operability of the batteries. The safety evaluation concluded that the margin of safety remains unchanged.

M12-2/3-86-07 Extend Existing Sewage Lift Station's Discharge Piping

This modification was performed to add a short extension to the existing sewage Lift Station discharge piping and the installation of valve with indicator posts on this extension and in the existing piping. This was accomplished to enable operators to direct raw sewage to either the upgraded unit or to the existing unit.

The safety evaluation concluded that safety as defined in the Technical Specification basis is not affected.

5.6 Temporary System Alterations (Unit 2 and Unit 3) installed during July, 1990

A "Temporary System Alteration" refers to electrical jumpers, lifted leads, removed fuses, fuses turned to non-conducting position, fuses moved from normal to reserve holder, temporary power supplies, test switches in alternate positions, temporary blank flanges, and spool pieces. Alterations controlled and documented as part of a routine out-of-service or other procedure, alterations which are a normal feature of system design, and hoses installed as part of a venting or draining process are not included.

Temporary System Alteration No.

Description

Installation Date

Removal Date

11-15-90

The purpose of this 7/3/90 alteration was to disable the 4 (four) smoke detectors located in the intake plenum of east turbine building ventilation system. The four detectors were disabled by lifting the common lead from the detectors to the relay pending completion of repairs.

11-17-90

This alteration involves using a service air hose to supply Radwaste from the Unit 3 Turbine Building. Normal service air supply pipe 4610-4" is isolated for replacement. The air station hose is strung overhead to prevent damage from area work activity.

7/11/90

5.6.2 Unit 3

Temporary System Alteration No.

Description

Installation Date

7/3/90

Removal Date

111-16-90

This alteration allows for the addition of a supplemental sample pump which allows taking the Tech. Spec. daily required containment samples. The sample pump is connected beyond the primary containment isolation valve boundary.

isolating SDC.

Temporary System Alteration No.	Description	Installation Date	Removal Date
111-17-90	This alteration permits the	7/3/90	10/1/90

This alteration permits the 7/3/90 operation of the SDC System with a failed thermocouple in the A recirculation loop.

The failed thermocouple provides a spurious isolation signal to SDC. The isolation is intended to prevent damage to the SDC Heat Exchanger if the recirculation loop temp. exceeds 350 degrees F. The B recirculation loop thermocouple is operable and capable of