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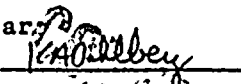


NINE MILE POINT NUCLEAR STATION UNIT 2

ELECTRICAL PREVENTIVE MAINTENANCE PROCEDURE

PROCEDURE NO. N2-EPM-GEN-Q575

QUARTERLY ROUNDS

DATE AND INITIALS

<u>APPROVALS</u>	<u>SIGNATURES</u>	<u>REVISION 0</u>	<u>REVISION 1</u>	<u>REVISION 2</u>
Site Superintendent Maintenance - Nuclear K. A. Dahlberg		1/27/88 KAD		
Station Superintendent NMPNS Unit 2 R. B. Abbott		1/31/88 RBA		
General Superintendent Nuclear Generation T. J. Perkins		2/1/88 RBJP		

Summary of Pages

Revision 0 (Effective 2/1/88)

Pages

*5,8,9,13

1-3,11,12

4,10

6,7

Date

May 1988 (Reissue)

April 1990 (Publication Changes)

September 1990 (Publication Change *)

February 1991 (Publication Change *2)

*Periodic Review (4/2/90) Indicating No Changes

THIS REISSUE SUPERSEDES ALL REVISIONS TO N2-EPM-GEN-M575

NIAGARA MOHAWK POWER CORPORATION

THIS PROCEDURE NOT TO BE
USED AFTER APRIL 1992
SUBJECT TO PERIODIC REVIEW.

*Changes per Section 11.5, AP-2.0


Signed

6/6/88
Date

9305040299 911031
PDR ADDOCK 05000410
S PDR

1950-1951

N2-EPM-GEN-0575

QUARTERLY ROUNDS

1.0 PURPOSE

1.1 The purpose of this procedure is to perform quarterly visual inspections of transformers and motors.

1.2 Applicability

This procedure is applicable to the equipment listed on Attachment 10.1, Applicability List.

1.3 Frequency

This procedure should normally be performed once per quarter. Identified equipment located in high radiation areas need only be inspected during plant outages.

1.4 Safety Classification

Safety Related and Non-Safety Related.

1.5 EQ and Safety Related Maintenance Requirements

1.5.1 The EQ and Safety Related Maintenance Requirements of P800ADD, P800ADE, P800ADF, P222XAO, P222XAP, P412MBK, P413MBL, P413HAA, and P413HAB are not applicable to this procedure.

1.6 Discussion

1.6.1 Oil level and filling is the responsibility of the Operations Department.

2.0 REFERENCES

2.1 AP-3.3.2, "Radiation Work Permit Procedure", Revision 01. | *

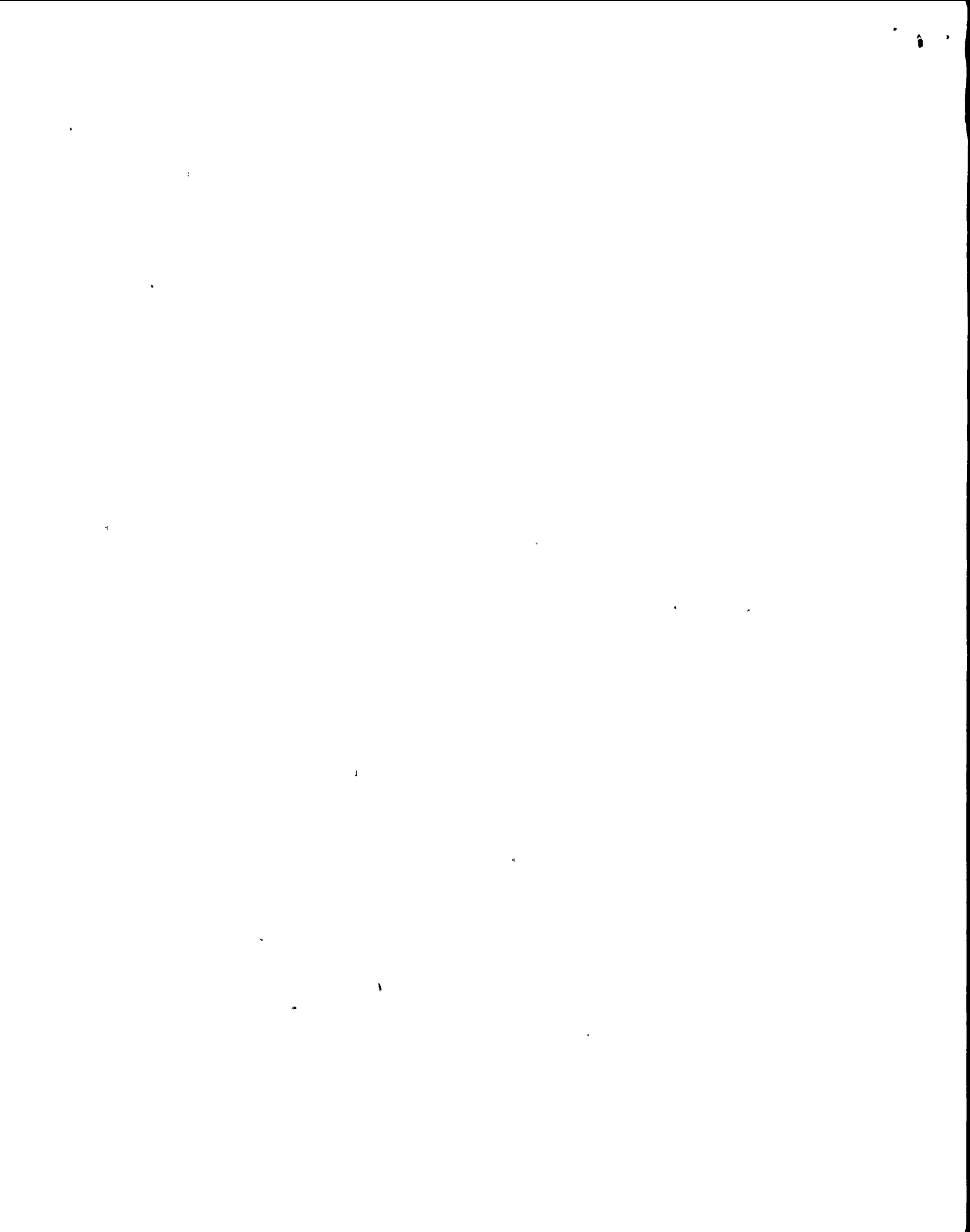
2.2 NMPC Accident Prevention Rules

2.3 Manuals:

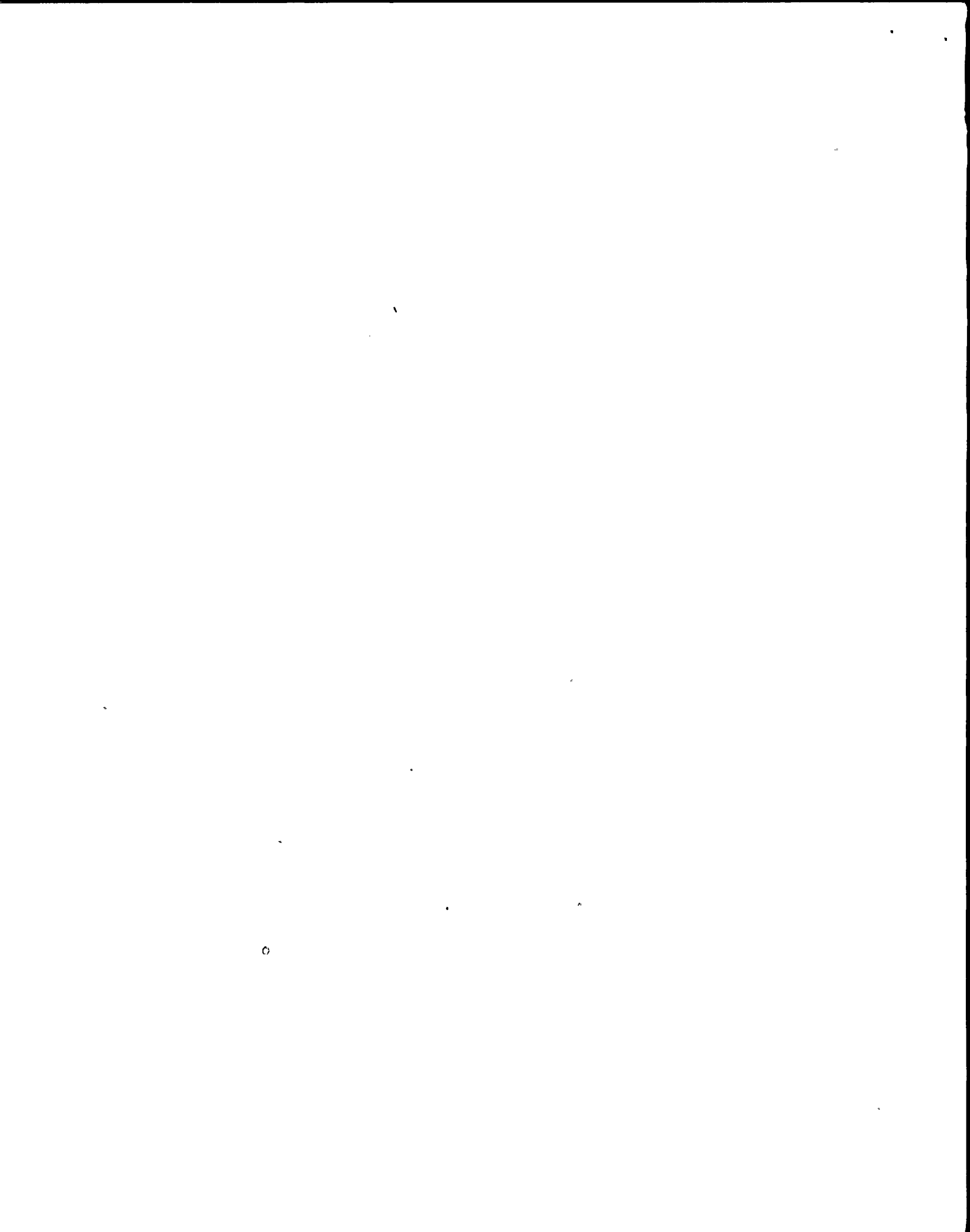
2.3.1 LPCS Motor Inst Manual, NMPC File Sequence No. N20742, Access No.: 430000185 | *

2.3.2 Control Rod Drive Pump Motor Instructions, NMPC File Sequence #:N20245, Access No. 430000586 | *

2.3.3 Westinghouse Life Line D, Horizontal Induction Motors Instruction Manual, NMPC File Sequence No. N20351, Access No.: 430000719 | *



- 2.3.4 RHR Mtrs Instruction Manual, NMPC File Sequence No. N20599, Access No.: 430000602
 - 2.3.5 DOCNO: Inst Manual, Access No.: 430002484, NMPC File Sequence No. N20701.
 - 2.3.6 G.E. Custom 8000 Horizontal Instruction Manual, GEK42681, Access No.: 430001343, NMPC File Sequence No. N20323.
 - 2.3.7 Allis-Chalmers Instruction Manual, NMPC File Sequence No. N20839, Access No.: 430000350 *
 - 2.3.8 Induction Motors Large, Access No.: 430002373.
 - 2.3.9 Transformer Instructions, GEK48513, Access No.: 430001352, NMPC File Sequence No. N20567.
 - 2.3.10 Instructions & Renewal Parts Manual, Access No.: 430000457, NMPC File Sequence #: N20121.
 - 2.3.11 Operation & Maintenance Manual Emer Core Cooling System, DOCNO: GEK83310, Access No.: 430004667, NMPC File Sequence No. N20341.
 - 2.3.12 NEMA Standard, July 1982, Motors and Generators, Part 12, MGI-12.42
 - 2.3.13 System Handbook for UPS Systems, Exide Electronic, 2VBB-UPS 1A, 1B, 1C, 1D, 1G, Access No. 430000742, NMPC File Sequence No. N20691. *
- 3.0 TECHNICAL SPECIFICATIONS
- N/A
- 4.0 SPECIAL TOOLS, MATERIALS, AND M&TE
- 4.1 Special Tools
- Keys needed from Radiation Protection, H203 for 2RHS*P1A and 2CSL*P1A and H201 for 2RHS*P1B and 2RHS*P1C
- 4.2 Materials
- UPS Filters, 95-32-011
- 4.3 M&TE
- 4.3.1 Thermometer for ambient temperature
- 4.3.2 Digital Multimeter, Fluke
- 4.3.3 Temperature probe for Fluke Multimeter, WAHL Digital Heat-Prober Thermometer Model 392M or equivalent *



5.0 PRECAUTIONS AND LIMITATIONS

- 5.1 When measuring motor bearing housing temperatures and stator housing temperatures, use caution to prevent the temperature probe from contacting any energized or moving part.
- 5.2 Caution shall be taken when working near rotating equipment.
- 5.3 If the equipment does not meet any of the test or inspection criteria in this procedure, restore the equipment to a safe condition and immediately notify the SSS of the failure. He will determine if an Occurrence Report should be initiated.
- 5.4 Personnel shall comply with the requirements of NMPC Accident Prevention Rules.

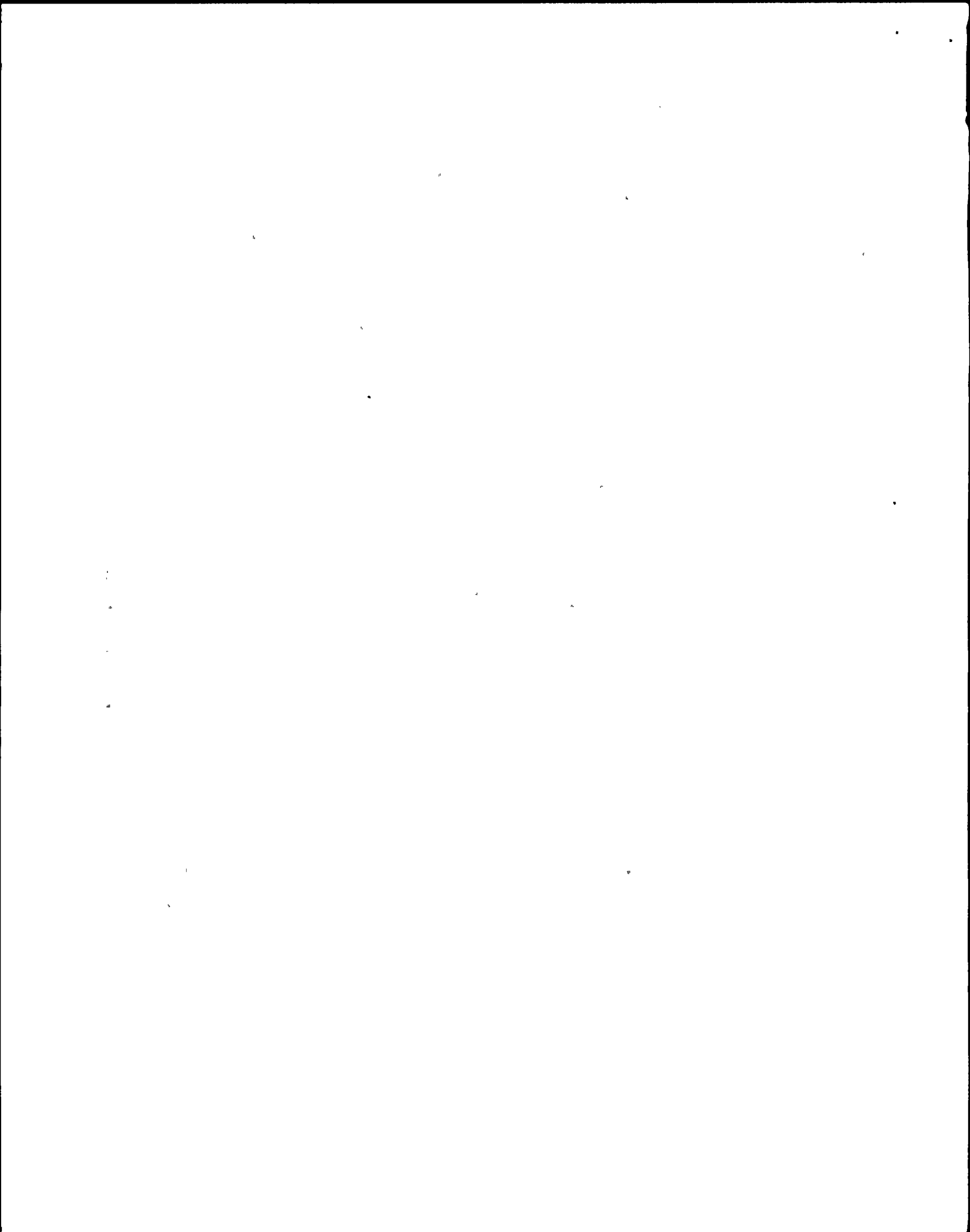
6.0 PREREQUISITES

- 6.1 Plant Conditions - Any
- 6.2 System Conditions - Any
- 6.3 Obtain permission from SSS to start work.
- PLANT IMPACT: NONE
- 6.4 Notify CSO of intent to perform maintenance.
- 6.5 Radiation Work Permit (RWP) - Obtain an RWP in accordance with AP-3.2.2, Radiation Work Permit Procedure, stating location and elevation of required permit. *
- 6.6 Notify QA and initial on Data Sheet.
- 6.7 Personnel performing this procedure have read it in its entirety and are thoroughly familiar with its contents.
- 6.8 Verify the test equipment is currently calibrated and record the test equipment as used.
- 6.9 Those steps or sections in this procedure not performed or applicable due to a particular situation should be marked "N/A" on the Data Sheet with explanations noted in the Remarks section.
- 6.10 Obtain Attachment 10.2 from assistant supervisor for each EPN listed in Attachment 10.1.

7.0 PROCEDURE

7.1 Air Cooled Transformers

- 7.1.1 Record the winding hot spot temperature indicator (white pointer) and maximum-reading indicator (red pointer) readings on the Data Sheet.



- 7.1.2 Reset the maximum-reading temperature indicator pointer by pressing the reset button at the lower right of meter.
- 7.1.3 Using the panel mounted ammeter and voltmeter, record the transformer current and voltage readings on Data Sheets.

7.2 Motors

- 7.2.1 Check that the motor is clean and free of buildup of dirt, oil, grease, or other foreign matter, and that air vents (if so equipped) are free of dirt buildup or other obstructions.
- 7.2.2 If the motor is not running, check that the winding space heaters (if so equipped) are functioning properly. Enter "OFF" if motor is running. Enter "N/A" if motor is not equipped with winding space HTR's.
- 7.2.3 If the motor is running perform the following:
 - 7.2.3.1 Check for unusual noises, excessive vibration, or other indications of possible abnormal operation. Enter "OFF" if motor is not running.
 - 7.2.3.2 Record the ambient temperature on the Data Sheet.

WARNING:

WHEN MEASURING MOTOR BEARING HOUSING TEMPERATURES AND STATOR HOUSING TEMPERATURES, USE CAUTION TO PREVENT THE TEMPERATURE PROBE FROM CONTACTING ANY ENERGIZED OR MOVING PARTS.

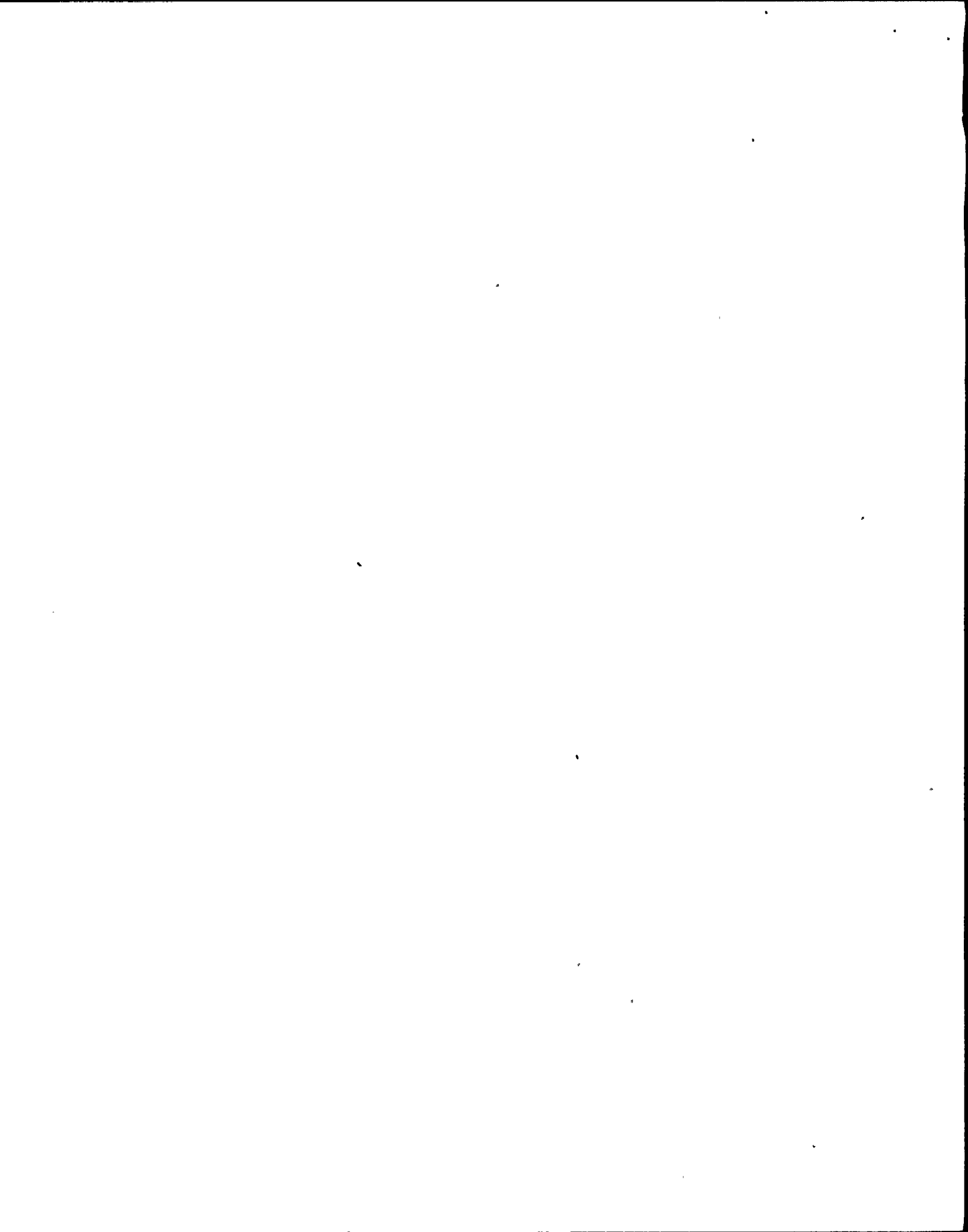
- 7.2.3.3 Using a temperature probe, measure inboard and outboard bearing temperatures by contacting the bearing housing with the probe at a point as close as possible to the bearing. Record the bearing housing temperature on the Data Sheet. Maximum acceptable bearing housing temperature shall be 20°C (70°F) above ambient temperature. Circle temperature range used on Data Sheet. | * I
- 7.2.3.4 Using a temperature probe, measure winding temperatures by contacting the top (or hottest spot) of the stator housing at a point about midway of the winding. Record the stator housing temperature on the Data Sheet. Maximum acceptable stator housing temperature shall be 20°C (70°F) above ambient temperature. Circle temperature range used on Data Sheet. | * I

7.3 UPS Checks

- 7.3.1 Check filters, replace as necessary.
- 7.3.2 Record meter readings.

8.0 RETURN TO NORMAL

- 8.1 Operations notified that inspection is complete.



9.0 ACCEPTANCE CRITERIA

9.1 Maximum acceptable bearing housing temperature shall be 20°C (70°F) above ambient temperature (Step 7.2.3.3).

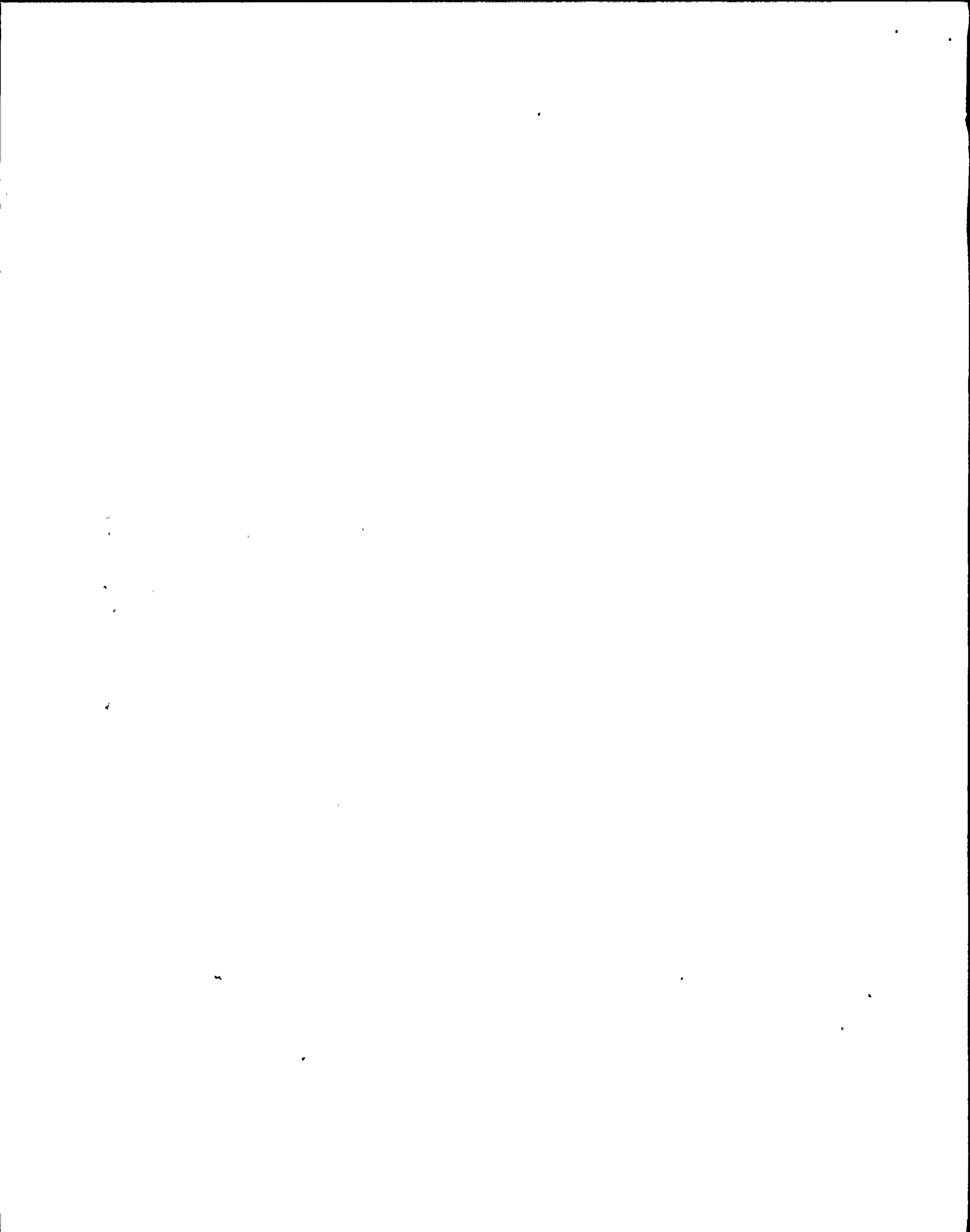
9.2 Maximum acceptable stator housing temperature shall be 20°C (70°F) above ambient temperature (Step 7.2.3.4).

10.0 ATTACHMENTS

10.1 Applicability List

10.2 Equipment Data Sheets

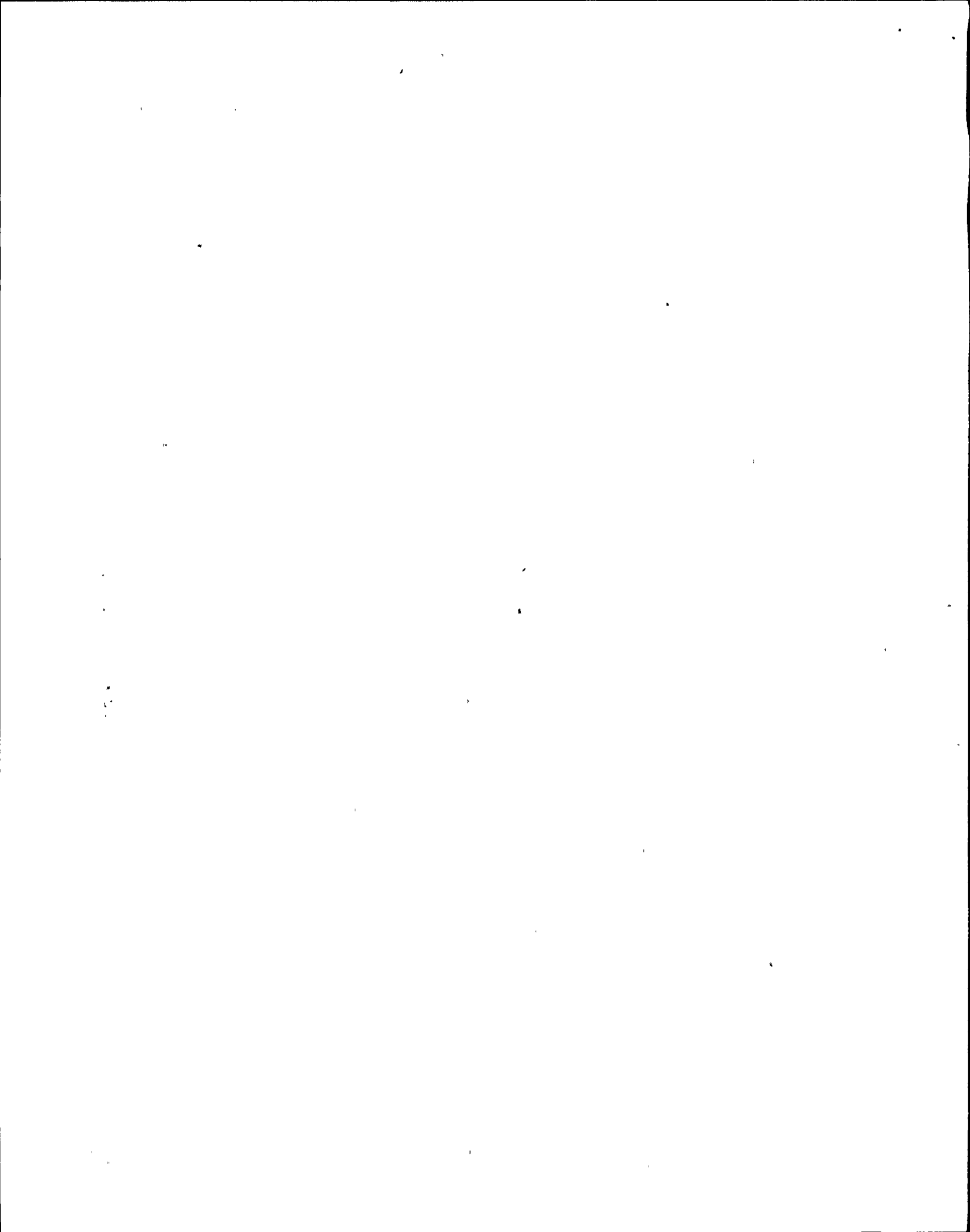
10.3 Data Sheets



APPLICABILITY LIST

Transformers

<u>Location</u>	<u>ID</u>	<u>Service</u>	<u>Safety Class.</u>
289' Secondary Cont	2NJS-X1D	Feed to 2NJS-US2 Bus A	NSR
289' Secondary Cont	2NJS-X3D	Feed to 2NJS-US2 Bus B	NSR
261' Control Bldg	2EJS*X1A	Feed to 2EJS*US1	SR
261' Control Bldg	2EJS*X1B	Feed to 2EJS*US1	SR
261' Control Bldg	2EJS*X3A	Feed to 2EJS*US3	SR
261' Control Bldg	2EJS*X3B	Feed to 2EJS*US3	SR
261' Normal Swgr	2NJS-X1E	Feed to 2NJS-US5	NSR
261' Normal Swgr	2NJS-X1A	Feed to 2NJS-US4 Bus A	NSR
261' Normal Swgr	2NJS-X3A	Feed to 2NJS-US4 Bus B	NSR
261' Normal Swgr	2NJS-X3E	Feed to 2NJS-US6	NSR
261' Normal Swgr	2NJS-X1F	Feed to 2NJS-US5	NSR
261' Normal Swgr	2NJS-X3F	Feed to 2NJS-US6	NSR
279' Radwaste Bldg	2NJS-X1J	Feed to 2NJS-US9 Bus A	NSR
279' Radwaste Bldg	2NJS-X3J	Feed to 2NJS-US9 Bus B	NSR
250' Turbine Bldg	2NJS-X1K	Feed to 2NJS-US10 Bus A	NSR
250' Turbine Bldg	2NJS-X3K	Feed to 2NJS-US10 Bus B	NSR
277' Turbine Bldg	2NJS-X1C	Feed to 2NJS-US1 Bus A	NSR
277' Turbine Bldg	2NJS-X3C	Feed to 2NJS-US1 Bus B	NSR
277' Turbine Bldg	2NJS-X1G	Feed to 2NJS-US7 Bus A	NSR
277' Turbine Bldg	2NJS-X3G	Feed to 2NJS-US7 Bus B	NSR
277' Turbine Bldg	2NJS-X1B	Feed to 2NJS-US3 Bus A	NSR
277' Turbine Bldg	2NJS-X3B	Feed to 2NJS-US3 Bus B	NSR
306' Turbine Bldg	2NJS-X1H	Feed to 2NJS-US8 Bus A	NSR
306' Turbine Bldg	2NJS-X3H	Feed to 2NJS-US8 Bus B	NSR

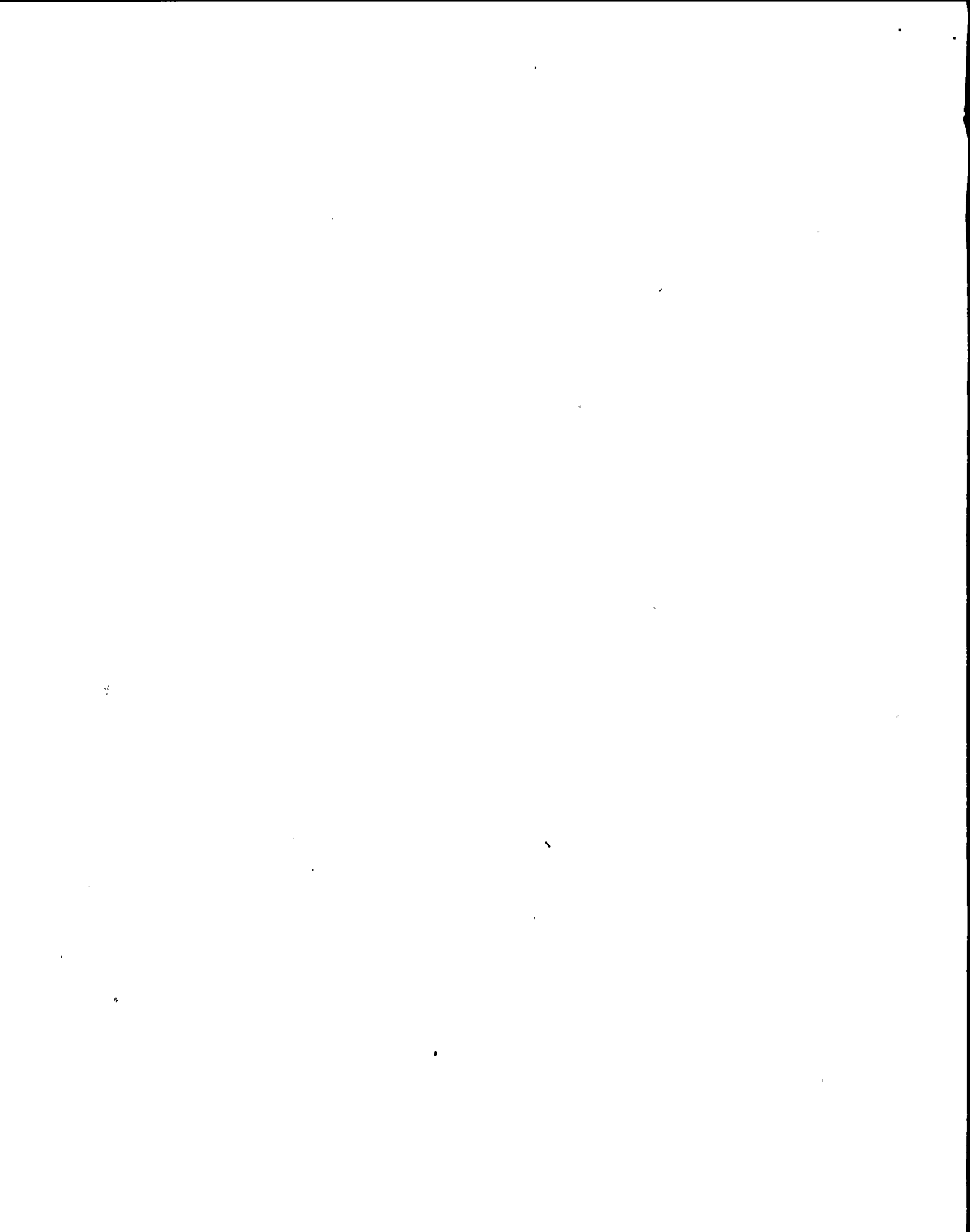


APPLICABILITY LIST

Motors

<u>Location</u>	<u>ID</u>	<u>Source</u>	<u>Service</u>	<u>Safety Class.</u>
250' Turbine Bldg	2HVH-P1A	2NJS-US10 Bus A	Main Hot Wtr Htr Pump A	NSR
250' Turbine Bldg	2CCS-P1A	2NNS-SWG011	TB CLCW Pump A	NSR
250' Turbine Bldg	2CCS-P1B	2NNS-SWG013	TB CLCW	NSR
250' Turbine Bldg	2ARC-P1A	2NJS-US8 Bus A	Cond Air Rem Pump A	HRA/NSR
250' Turbine Bldg	2ARC-P1B	2NJS-US8 Bus B	Cond Air Rem Pump B	HRA/NSR
250' Turbine Bldg	2CNM-P2A	2NPS*SWG001	Condensate Booster Pump A	NSR
250' Turbine Bldg	2CNM-P2B	2NPS*SWG003	Condensate Booster Pump	NSR
250' Turbine Bldg	2CNM-P2C	2NPS*SWG001	Condensate Booster Pump	NSR
250' Turbine Bldg	2FWS-P1A	2NPS*SWG001	Reactor Feed Pump A	NSR
250' Turbine Bldg	2AAS-C1	2NJS-US5	Breathing Air Cprsr	NSR
250' Turbine Bldg	2IAS-C1A	2NJS-US5	Instr Air Compressor A	NSR
250' Turbine Bldg	2IAS-C1B	2NJS-US6	Instr Air Compressor B	NSR
250' Turbine Bldg	2IAS-C1C	2NJS-US10 Bus C	Instr Air Compressor C	NSR
250' Turbine Bldg	2CCS-P1C	2NNS-SWG012	TB CLCW	NSR
250' Turbine Bldg	2GMC-P1A	2NJS-US3 Bus A	Stator Cooling Pump A	NSR
250' Turbine Bldg	2GMC-P1B	2NJS-US3 Bus B	Stator Cooling Pump B	NSR
250' Turbine Bldg	2TMB-P1A	2NJS-US10 Bus A	Turb EHC Fluid Pump A	NSR
250' Turbine Bldg	2TMB-P1B	2NJS-US10 Bus B	Turb EHC Fluid Pump B	NSR
250' Turbine Bldg	2CNM-P1A	2NNS-SWG011	Condensate Pump A	NSR
250' Turbine Bldg	2CNM-P1C	2NNS-SWG011	Condensate Pump C	NSR
250' Turbine Bldg	2CNM-P1B	2NNS-SWG013	Condensate Pump B	NSR
250' Turbine Bldg	2FWS-P1B	2NPS*SWG003	Reactor Feed Pump	NSR
250' Turbine Bldg	2FWS-P1C	2NPS*SWG003	Reactor Feed Pump	NSR
250' Turbine Bldg	2HVH-P1B	2NJS-US10 Bus B	Main Hot Wtr Htr Pump B	NSR
306' Turbine Bldg	2TMG-M1	2NJS-US6	Turbine Turning Gear	NSR *2
293' Normal Swgr	2RCS-MG1A	2NNS-SWG011	Norm AC HV Mtr Gen Set 1A	NSR
293' Normal Swgr	2RCS-MG1B	2NNS-SWG013	Norm AC HV Mtr Gen Set 1B	NSR
228' Screen House	2CWS-P1A	2NPS*SWG001	Circulating Water Pump A	NSR
228' Screen House	2CWS-P1B	2NPS*SWG003	Circulating Water Pump B	NSR
228' Screen House	2CWS-P1C	2NPS*SWG001	Circulating Water Pump C	NSR
228' Screen House	2CWS-P1D	2NPS*SWG003	Circulating Water Pump D	NSR
228' Screen House	2CWS-P1E	2NPS*SWG001	Circulating Water Pump E	NSR
228' Screen House	2CWS-P1F	2NPS*SWG003	Circulating Water Pump F	NSR
228' Screen House	2SWT-P1A	2NJS-US8 Bus A	Screenwash Pump A	NSR
228' Screen House	2SWP-P3	2NJS-US8 Bus A	Jet Motive Pump	NSR
228' Screen House	2SWT-P1B	2NJS-US8 Bus B	Screenwash Pump B	NSR
261' Screen House	2FPW-P2	2NNS-SWG012	Fire Pump	NSR
175' Secondary Cont	2CSH*P1	2ENS*SWG102	HPCS Pump	SR
196' Secondary Cont	2CCP-P3B	2NNS-SWG015	RB CLCW PP B	NSR
196' Secondary Cont	2CCP-P3C	2NNS-SWG014	RB-CLCW PP C	NSR
196' Secondary Cont	2CCP-P3A	2NNS-SWG013	RB CLCW PP A	NSR
215' Secondary Cont	2RDS-P1B	2NNS-SWG015	Control Rod Drive Pump B	NSR

HRA = High Radiation Area



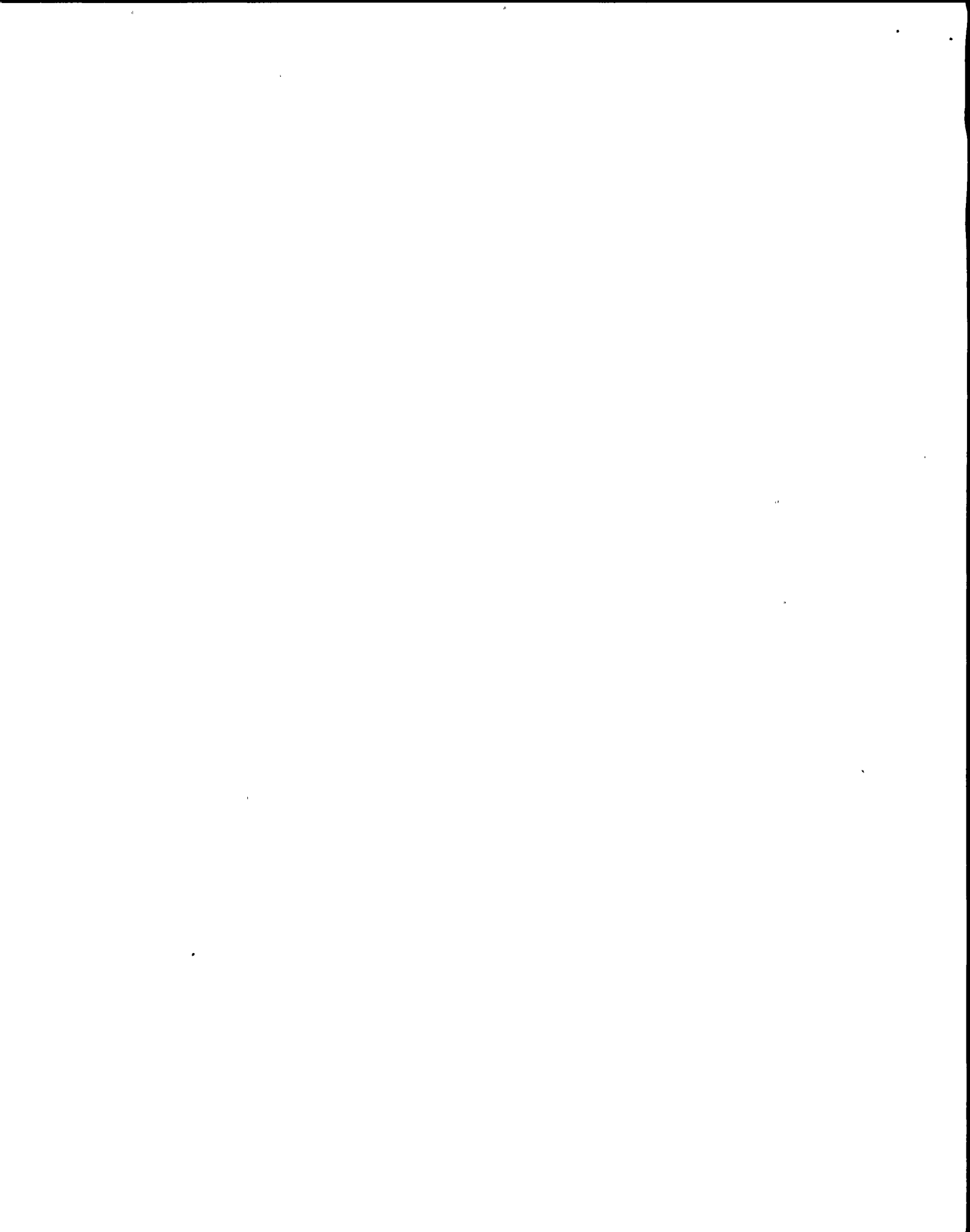
APPLICABILITY LIST

Motors

<u>Location</u>	<u>ID</u>	<u>Source</u>	<u>Service</u>	<u>Safety Class.</u>
215' Secondary Cont	2RDS-P1A	2NNS-SWG014	Control Rod Drive Pump A	NSR
289' Secondary Cont	2SFC*P1A	2ENS*SWG101	SFC Water Circ Pump A	SR
290' Secondary Cont	2SFC*P1B	2ENS*SWG103	SFC Wtr Circ Pump B	SR
328' Secondary Cont	2CCP-P1B	2NNS-SWG015	RB CLCW PP B	NSR
328' Secondary Cont	2CCP-P1A	2NNS-SWG012	RB CLCW PP A	NSR
328' Secondary Cont	2CCP-P1C	2NNS-SWG014	RB-CLCW PP C	NSR
250' Heater Bay	2HDL-P1A	2NNS-SWG011	4TH Htr Drain	HRA/NSR
250' Heater Bay	2HDL-P1B	2NNS-SWG013	4TH Htr Drain	HRA/NSR
250' Heater Bay	2HDL-P1C	2NNS-SWG012	4TH Htr Drain	HRA/NSR
175' N Aux Bay	2RHS*P1A	2ENS*SWG101	RHR Pump A	*/SR
175' N Aux Bay	2CSL*P1A	2ENS-SWG101	LPCS Pump	*/SR
175' S Aux Bay	2RHS*P1B	2ENS*SWG103	RHR Pump B	*/SR
175' S Aux Bay	2RHS*P1C	2ENS*SWG103	RHR Pump C	*/SR
224' Service Water Bldg	2SWP*P1E	2ENS*SWG101	Serv Water Pump E	SR
224' Service Water Bldg	2SWP*P1A	2ENS*SWG101	Serv Water Pump A	SR
224' Service Water Bldg	2SWP*P1B	2ENS*SWG103	Serv Water Pump B	SR
224' Service Water Bldg	2SWP*P1F	2ENS*SWG103	Serv Water Pump F	SR
224' Service Water Bldg	2SWP*P1D	2ENS*SWG103	Serv Water Pump D	SR
224' Service Water Bldg	2SWP*P1C	2ENS*SWG101	Serv Water Pump C	SR
251' Cond Storage	2CNS-P1A	2NJS-US9 Bus A	Cond XFR Pump A	NSR
251' Cond Storage	2CNS-P1B	2NJS-US9 Bus B	Cond XFR Pump B	NSR
261' Chiller Bldg	2HVN-P1A	2NJS-US3 Bus A	NS Chiller Wtr PP A	NSR
261' Chiller Bldg	2HVN-P1B	2NJS-US3 Bus B	NS Chiller Wtr PP B	NSR
261' Chiller Bldg	2HVN-P2A	2NJS-US3 Bus A	Serv Water PP A	NSR
261' Chiller Bldg	2HVN-P2B	2NJS-US3 Bus B	Serv Water PP B	NSR
237' Normal Swgr	2VBB-UPS1A	2VBB-PNL301	2VBS-PNL A 101,102	NSR
237' Normal Swgr	2VBB-UPS1B	2VBB-PNL301	2VBS-PNL B 101,102,111	NSR
237' Normal Swgr	2VBB-UPS1C	2LAT-PNL300	2LAT-PNL017	NSR
237' Normal Swgr	2VBB-UPS1D	2NHS-MCC006	2LAS-PNL016	NSR
214' Control Bldg	2VBB-UPS1G	2VBB-PNL301	2VBB-PNL300	NSR

HRA = High Radiation Area

* = Not HRA now, but will be, check with Rad. Prot. prior to entry.



Equipment Piece No. _____

Attachment 10.2
Sheet 1 of 3

EQUIPMENT DATA SHEETS FOR AIR COOLED TRANSFORMERS

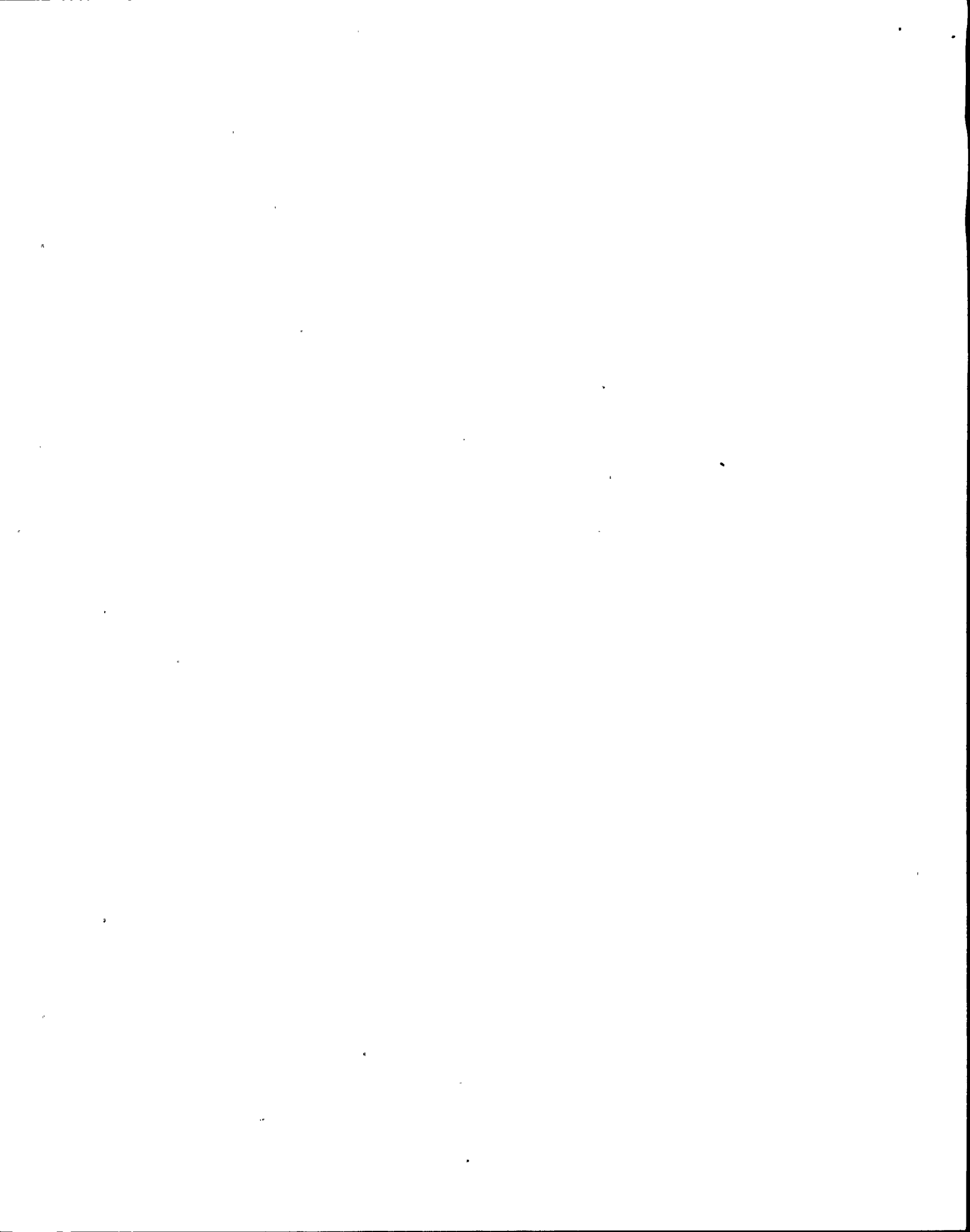
QUARTERLY ROUNDS

A. VERIFICATION OF PROCEDURE STEPS:

Procedure

		<u>Quarter</u>			
		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.1	<u>Air Cooled Transformers</u>				
7.1.1	Winding temperature.	____ °C	____ °C	____ °C	____
	Maximum temperature.	____ °C	____ °C	____ °C	____
7.1.2	Pointer reset.	____	____	____	____
7.1.3	Current: A Phase	____ A	____ A	____ A	____
	B Phase	____ A	____ A	____ A	____
	C Phase	____ A	____ A	____ A	____
	Voltage: A-B	____ V	____ V	____ V	____
	B-C	____ V	____ V	____ V	____
	C-A	____ V	____ V	____ V	____
	Maint. Initials	____	____	____	____
	Date	____	____	____	____

Remarks _____



EQUIPMENT DATA SHEETS FOR MOTORS

QUARTERLY ROUNDS

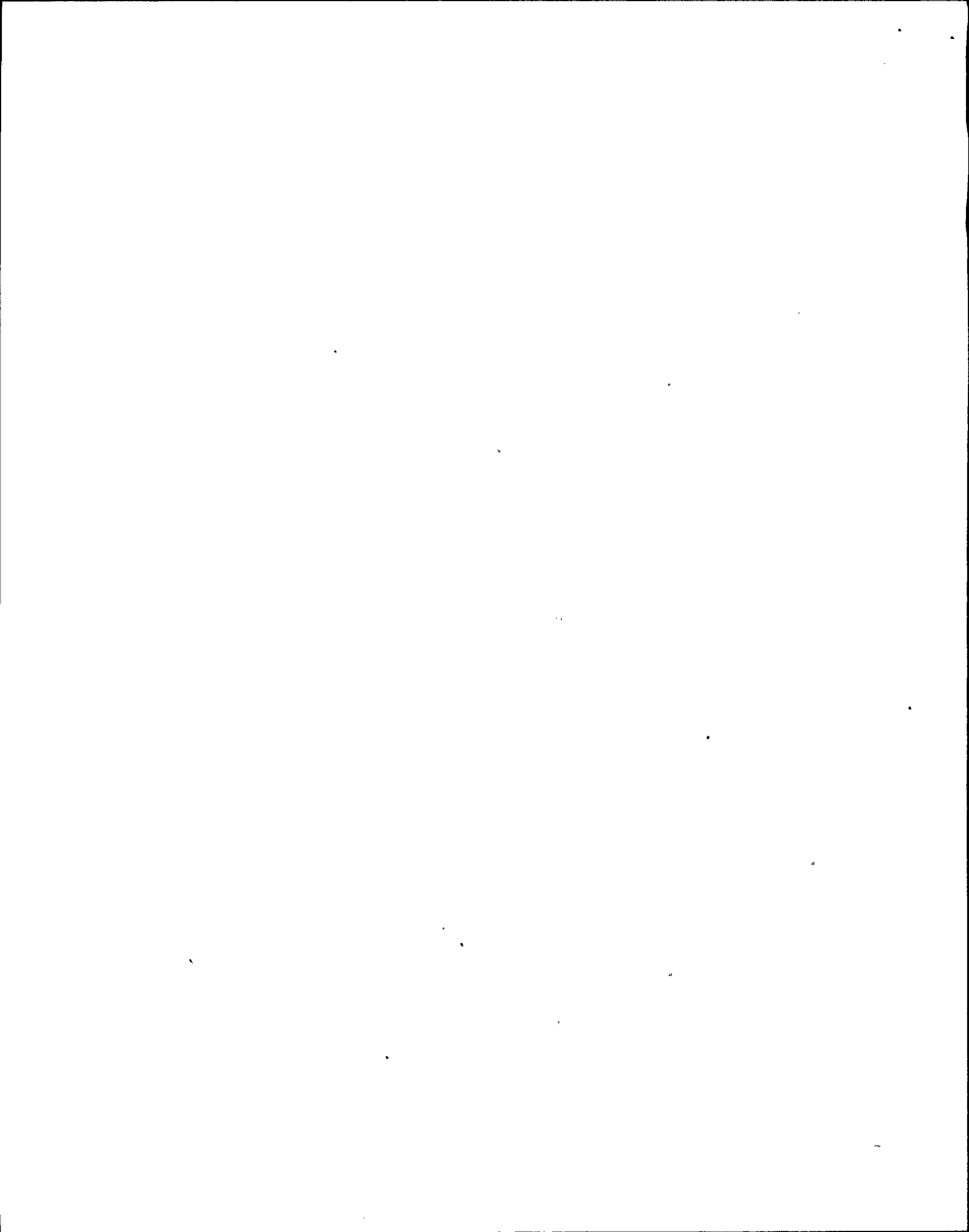
A. VERIFICATION OF PROCEDURE STEPS:

Procedure

		<u>Quarter</u>			
		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.2	<u>Motors</u>				
7.2.1	Motor clean.	_____	_____	_____	_____
7.2.2	Space heaters ok.	_____	_____	_____	_____
7.2.3.1	Operation normal.	_____	_____	_____	_____
7.2.3.2	Ambient temperature.	_____°C/F	_____°C/F	_____°C/F	_____°C/F
7.2.3.3	Bearings				
	Inboard temperature.	_____°C/F	_____°C/F	_____°C/F	_____°C/F
	Outboard temperature	_____°C/F	_____°C/F	_____°C/F	_____°C/F
7.2.3.4	Winding temperature.	_____°C/F	_____°C/F	_____°C/F	_____°C/F
	Maint. Initials	_____	_____	_____	_____
	Date	_____	_____	_____	_____

* 1

Remarks _____



Equipment Piece No. _____

Attachment 10.2
Sheet 2 of 3

EQUIPMENT DATA SHEETS FOR UPS's

QUARTERLY ROUNDS

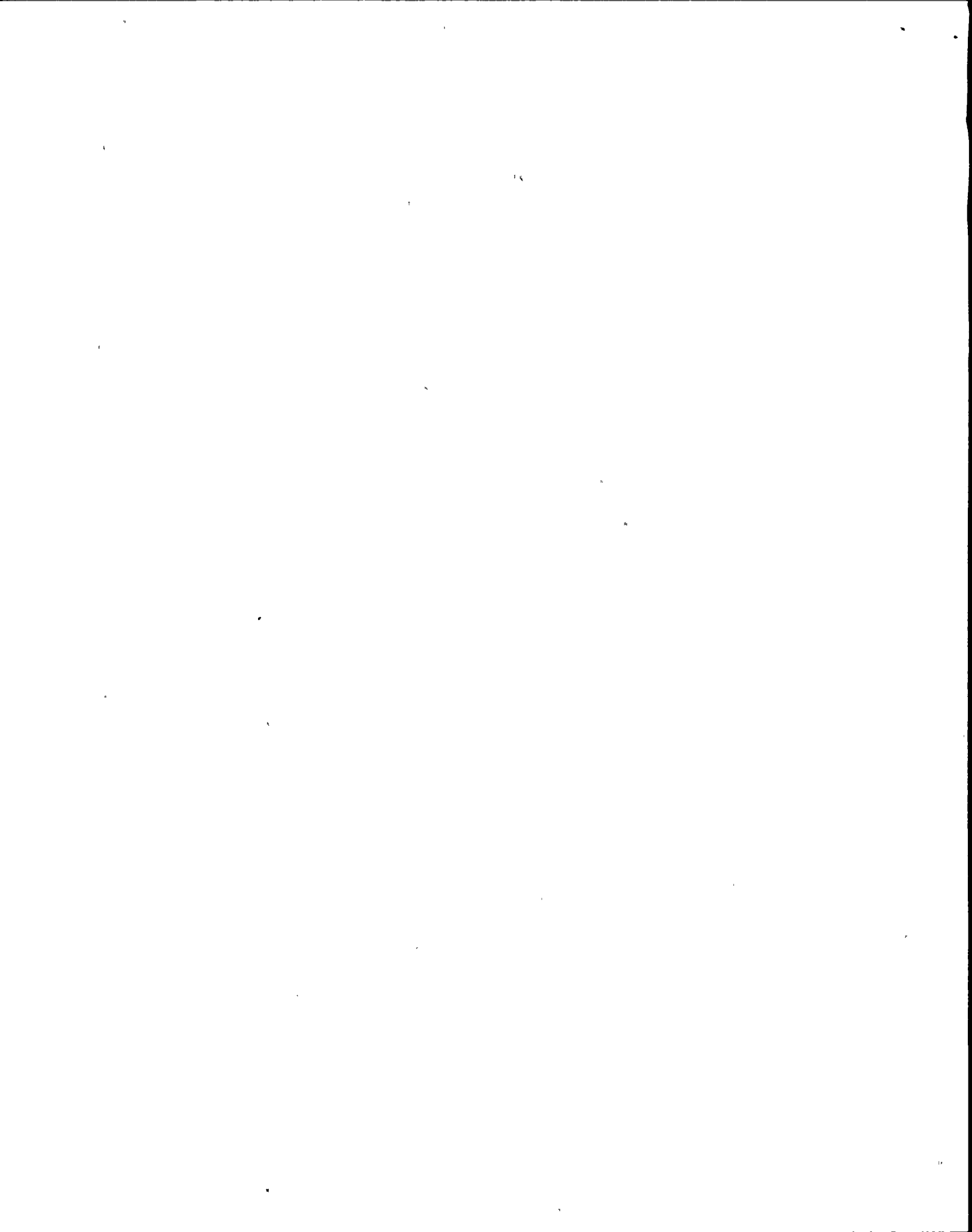
A. VERIFICATION OF PROCEDURE STEPS:

Procedure

		<u>Quarter</u>			
		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.3	<u>UPS's</u>				
7.3.1	Filters replaced	_____	_____	_____	_____
7.3.2	Meter Readings				
	Normal AC Volts	_____	_____	_____	_____
	Normal AC Amp	_____	_____	_____	_____
	DC Volts	_____	_____	_____	_____
	Charger Output AMPS	_____	_____	_____	_____
	Battery AMP	_____	_____	_____	_____
	AC Output Freq.	_____	_____	_____	_____
	AC Output Volts	_____	_____	_____	_____
	AC Output AMPS	_____	_____	_____	_____

Remarks: _____

*)



DATA SHEET
QUARTERLY ROUNDS

A. VERIFICATION OF PROCEDURE STEPS:

Initials/ Date

Prerequisites

- | | | | |
|-----|---------------------------------|--------|------------|
| 6.1 | Plant conditions satisfactory. | Maint. | _____/____ |
| 6.2 | System conditions satisfactory. | Maint. | _____/____ |
| 6.3 | SSS permission granted. | Maint. | _____/____ |

PLANT IMPACT: NONE

- | | | | |
|-----|---|--------|------------|
| 6.4 | CSO notified. | Maint. | _____/____ |
| 6.5 | Radiation Work Permit (RWP) No. _____ obtained. | Maint. | _____/____ |
| 6.6 | QA notified. | Maint. | _____/____ |
| 6.7 | Personnel familiar with procedure. | Maint. | _____/____ |

6.8	<u>Test Equipment</u>	<u>I.D. No.</u>	<u>Cal. Due Date</u>	
	<u>Thermometer</u>	_____	_____	
	<u>Multimeter</u>	_____	_____	
	<u>Temp. Probe</u>	_____	_____	
	_____	_____	_____	
	_____	_____	_____	Maint. _____/____

- | | | | |
|------|--|--------|------------|
| 6.10 | Obtained Attachment 10.2 for each EPN. | Maint. | _____/____ |
|------|--|--------|------------|

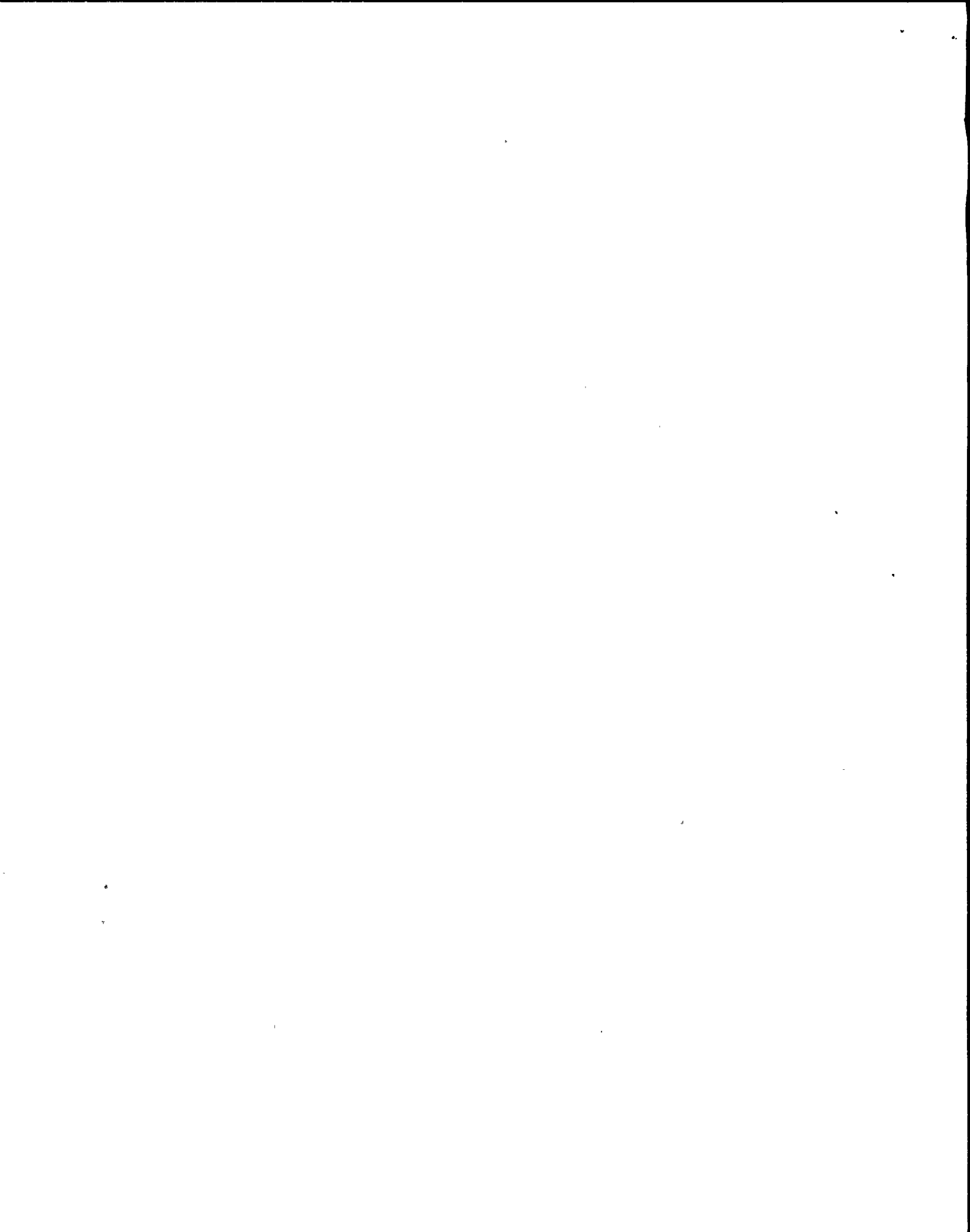
Return to Normal

- | | | | |
|-----|---|--------|------------|
| 8.1 | Notified Operations inspection is complete. | Maint. | _____/____ |
|-----|---|--------|------------|

Acceptance Criteria

- | | | | |
|-----|--|--------|------------|
| 9.1 | Maximum acceptable bearing housing temperature shall be 20°C (70°F) above ambient temperature (Step 7.2.3.3) | Maint. | _____/____ |
| 9.2 | Maximum acceptable stator housing temperature shall be 20°C (70°F) above ambient temperature (Step 7.2.3.4) | Maint. | _____/____ |

*



DATA SHEET
QUARTERLY ROUNDS

*

A. VERIFICATION OF PROCEDURE STEPS (Cont'd.):

Initials/ Date

Signature Table

	<u>INITIALS</u>	<u>SIGNATURE</u>	<u>PRINTED NAME</u>
Performed by:	_____	_____	_____
Performed by:	_____	_____	_____
Performed by:	_____	_____	_____
Performed by:	_____	_____	_____
Performed by:	_____	_____	_____

B. RESULTS:

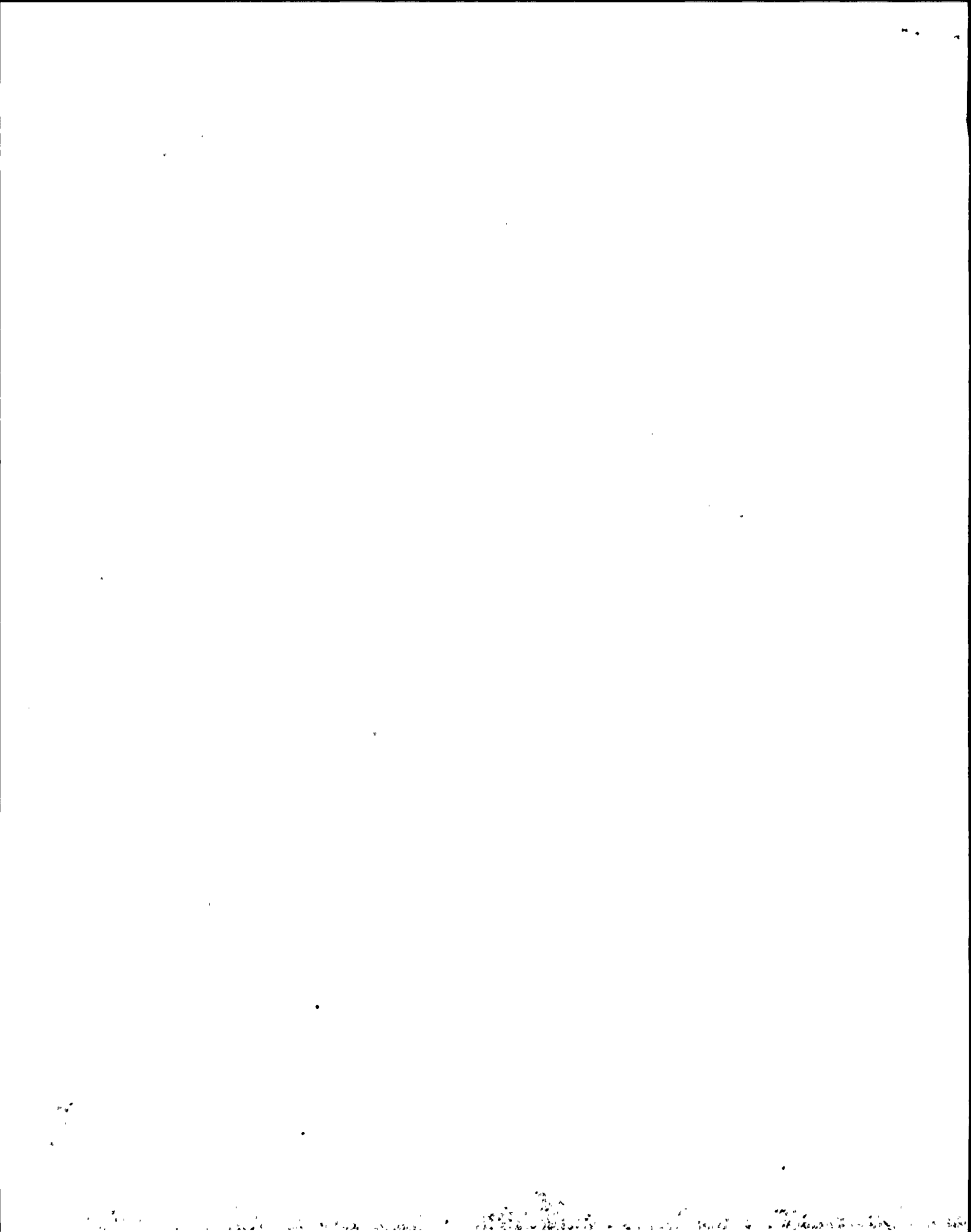
1. Acceptable
2. Acceptable with comments. Work Request No. _____
3. Unsatisfactory, (Use Remarks section as necessary and initiate a Work Request). Work Request No. _____

C. REMARKS:

D. REVIEW:

_____/_____
Maintenance Man Date

_____/_____
Asst./Maintenance Supervisor Date



Equipment Piece No. 2VBB-UPS 1A

Attachment 10.2
Sheet 2 of 3

EQUIPMENT DATA SHEETS FOR UPS's

QUARTERLY ROUNDS

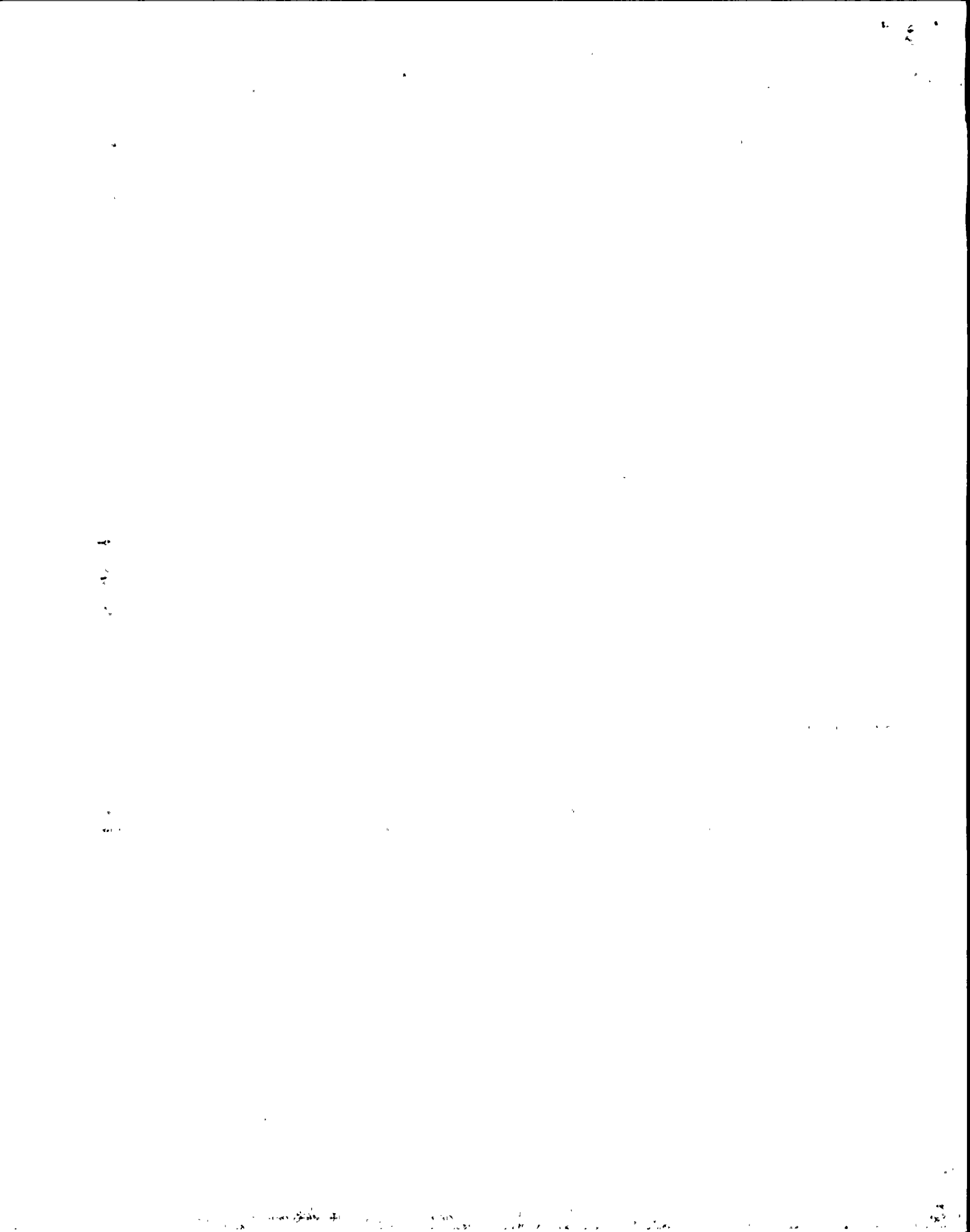
A. VERIFICATION OF PROCEDURE STEPS:

Procedure

		<u>Quarter</u>			
		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.3	<u>UPS's</u>				
7.3.1	Filters replaced	✓	NA	—	—
7.3.2	Meter Readings				
	Normal AC Volts	<u>610</u>	<u>610</u>	—	—
	Normal AC Amp	<u>40</u>	<u>38</u>	—	—
	DC Volts	<u>136</u>	<u>122</u>	—	—
	Charger Output AMPs	<u>200</u>	<u>210</u>	—	—
	Battery AMP	<u>0</u>	<u>0</u>	—	—
	AC Output Freq.	<u>59.5</u>	<u>59.75</u> <u>58.5P</u> <u>6-21-91</u>	—	—
	AC Output Volts	<u>122</u>	<u>120.5</u>	—	—
	AC Output AMPs	<u>90</u>	<u>100</u>	—	—
	Remarks:	<u>ASH</u>	<u>JP</u> <u>6-21-91</u>	—	—

1-23-91

7-29-91
731 filters was clean



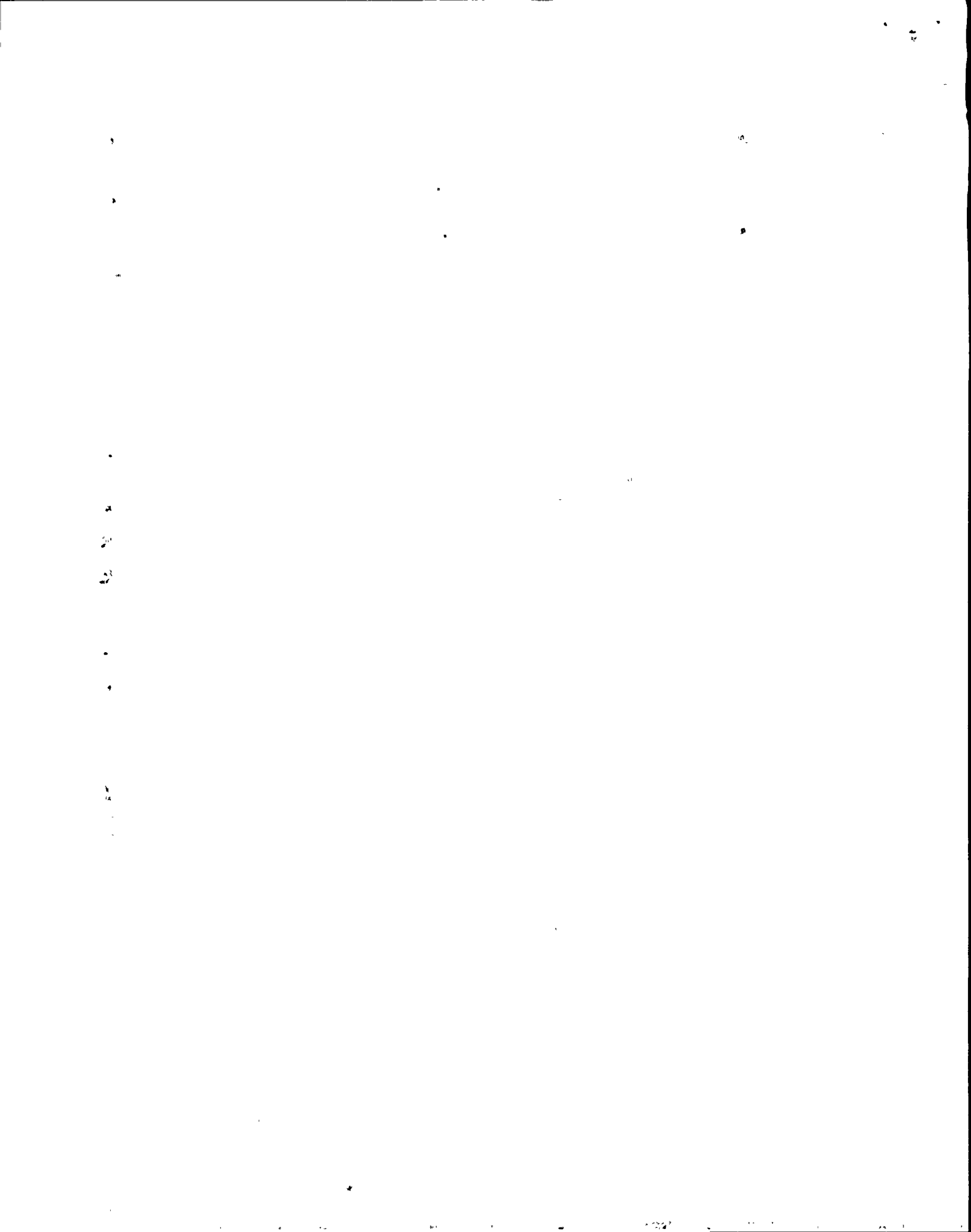
EQUIPMENT DATA SHEETS FOR UPS's

QUARTERLY ROUNDS

A. VERIFICATION OF PROCEDURE STEPS:

Procedure

	<u>Quarter</u>			
	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.3 <u>UPS's</u>				
7.3.1 <u>Filters replaced</u>	<u>✓</u>	<u>NA</u>	<u>---</u>	<u>---</u>
7.3.2 <u>Meter Readings</u>				
<u>Normal AC Volts</u>	<u>610</u>	<u>620</u>	<u>---</u>	<u>---</u>
<u>Normal AC Amp</u>	<u>48</u>	<u>48</u>	<u>---</u>	<u>---</u>
<u>DC Volts</u>	<u>134</u>	<u>135</u>	<u>---</u>	<u>---</u>
<u>Charger Output AMPS</u>	<u>260</u>	<u>260</u>	<u>---</u>	<u>---</u>
<u>Battery AMP</u>	<u>0</u>	<u>0</u>	<u>---</u>	<u>---</u>
<u>AC Output Freq.</u>	<u>59.5</u>	<u>59.5</u>	<u>---</u>	<u>---</u>
<u>AC Output Volts</u>	<u>121</u>	<u>121</u>	<u>---</u>	<u>---</u>
<u>AC Output AMPS</u>	<u>100</u>	<u>110</u>	<u>---</u>	<u>---</u>
<u> </u>	<u>0.24</u>	<u>0.27</u>	<u>---</u>	<u>---</u>
<u> </u>	<u>1-23-91</u>	<u>6-21-91</u>	<u>---</u>	<u>---</u>
Remarks:	<u>7.3.1 Filter was clean</u>			



EQUIPMENT DATA SHEETS FOR UPS's

QUARTERLY ROUNDS

A. VERIFICATION OF PROCEDURE STEPS:

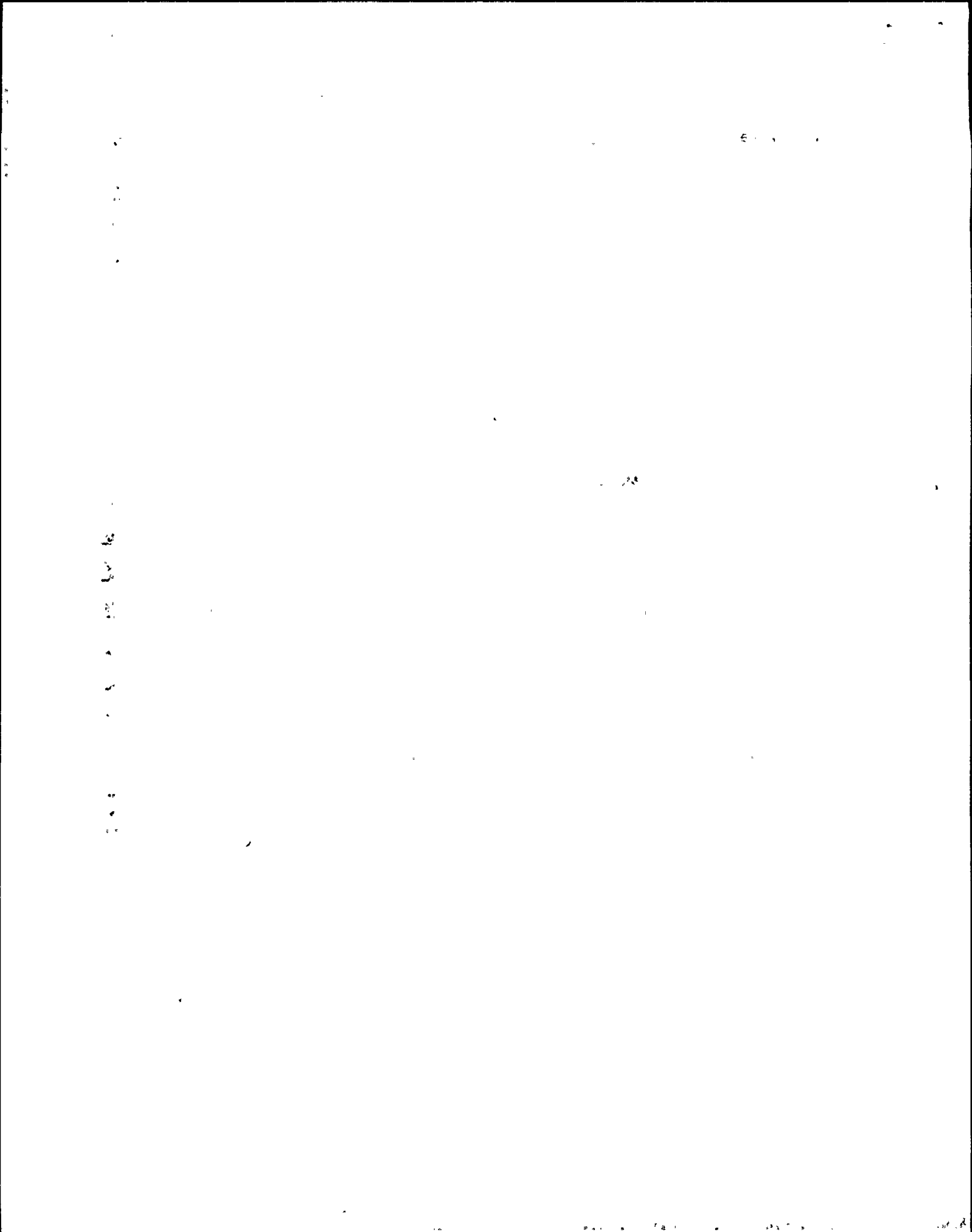
Procedure

		<u>Quarter</u>			
		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.3	<u>UPS's</u>				
7.3.1	Filters replaced	<u>✓</u>	<u>NA</u>	_____	_____
7.3.2	Meter Readings				
	Normal AC Volts	<u>610</u>	<u>605</u>	_____	_____
	Normal AC Amp	<u>* 0</u>	<u>0</u>	_____	_____
	DC Volts	<u>* 101</u>	<u>101</u>	_____	_____
	Charger Output AMPS	<u>* 0</u>	<u>0</u>	_____	_____
	Battery AMP	<u>* 0</u>	<u>0</u>	_____	_____
	AC Output Freq.	<u>* >55</u>	<u>>55</u>	_____	_____
	AC Output Volts	<u>* 106</u>	<u>106</u>	_____	_____
	AC Output AMPS	<u>165</u>	<u>160</u>	_____	_____

Remarks: * UPS Tripped - Fuse F 33 blow - Def log 12779 hung R&H
6-21-91 UPS TRIPPED

7.3.1 filter was clean

1/23/91
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EQUIPMENT DATA SHEETS FOR UPS's

QUARTERLY ROUNDS

A. VERIFICATION OF PROCEDURE STEPS:

Procedure

		<u>Quarter</u>			
		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.3	<u>UPS's</u>				
7.3.1	Filters replaced	<u>✓</u>	<u>NA</u>	<u> </u>	<u> </u>
7.3.2	Meter Readings				
	Normal AC Volts	<u>65</u>	<u>610</u>	<u> </u>	<u> </u>
	Normal AC Amp	<u>70</u>	<u>72</u>	<u> </u>	<u> </u>
	DC Volts	<u>138</u>	<u>138</u>	<u> </u>	<u> </u>
	Charger Output AMPS	<u>420</u>	<u>425</u>	<u> </u>	<u> </u>
	Battery AMP	<u>0</u>	<u>0</u>	<u> </u>	<u> </u>
	AC Output Freq.	<u>60</u>	<u>60</u>	<u> </u>	<u> </u>
	AC Output Volts	<u>119</u>	<u>121</u>	<u> </u>	<u> </u>
	AC Output AMPS	<u>135</u>	<u>140</u>	<u> </u>	<u> </u>

Remarks: 200/200/731 Always Clean

CAH 1-23-91 J.P. 6-21-91

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Equipment Piece No. ZVBB-LPS16

Attachment 10.2
Sheet 2 of 3

EQUIPMENT DATA SHEETS FOR UPS's

QUARTERLY ROUNDS

A. VERIFICATION OF PROCEDURE STEPS:

Procedure

		<u>Quarter</u>			
		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
7.3	<u>UPS's</u>				
7.3.1	Filters replaced	<u>✓</u>	<u>NA</u>	<u> </u>	<u> </u>
7.3.2	Meter Readings				
	Normal AC Volts	<u>600</u>	<u>600</u>	<u> </u>	<u> </u>
	Normal AC Amp	<u>38</u>	<u>34</u>	<u> </u>	<u> </u>
	DC Volts	<u>137</u>	<u>137</u>	<u> </u>	<u> </u>
	Charger Output AMPS	<u>210</u>	<u>200</u>	<u> </u>	<u> </u>
	Battery AMP	<u>0</u>	<u>0</u>	<u> </u>	<u> </u>
	AC Output Freq.	<u>59</u>	<u>59.9</u>	<u> </u>	<u> </u>
	AC Output Volts	<u>119</u>	<u>119</u>	<u> </u>	<u> </u>
	AC Output AMPS	<u>75</u>	<u>75</u>	<u> </u>	<u> </u>

Remarks: RAH 1-23-91 DS-291
7.31 filters were clean

