



VIRGINIA POWER

March 31, 1993

William L. Kregloe
Virginia Water Control Board
Valley Regional Office
116 North Main Street
P. O. Box 268
Bridgewater, VA 22812

Dear Mr. Kregloe:

Enclosed are water temperature data (Tables 1-3 and Figures 1-2) collected for the fourth quarter of 1992, October-December at North Anna Power Station in compliance with NPDES Permit Number VA0052451 under Special Condition Number 8. Station operation data through December are shown in Figure 3.

During November two instruments failed as did another four during December. These failures appear to have been caused by an on-board clock battery that is not a normal replacement item. We have replaced these batteries and do not anticipate further problems with them. In several cases, instruments that had not ceased operating occasionally did not record an hour's data. In all but two cases, the recorded data were consistent with near-by instruments as well as with readings from adjacent hours. In the two afore-mentioned cases, the recorded values were about three times the adjacent values (e.g. 48° vs. 16°). These two apparently aberrant values were set to missing.

If we can provide any additional information or if you have any questions, please let me know.

Sincerely,

B. M. Marshall, P.E.
Manager
Water Quality

NHW/jmh

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PDR ADOCK 05000338
P PDR

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cc: Mr. K. N. Kappatos
Old Dominion Electric Cooperative
P. O. Box 2310
Glen Allen, VA 23058-2310

U.S. Nuclear Regulatory Commission
Region II
101 Marietta St., NW
Suite 2900
Atlanta, GA 30323

Re: North Anna Units 1 & 2
Docket Nos. 50-338/50-339
License Nos. NPF-4/NPF-7

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Re: North Anna Units 1 & 2
Docket Nos. 50-338/50-339
License Nos. NPF-4/NPF-7

Mr. M. S. Lesser
NRC Senior Resident Inspector
North Anna Power Station

TABLE 1. SUMMARY OF NORTH ANNA FIXED RECORDER TEMPERATURE DATA FOR THE FOURTH QUARTER, 1992. VALUES ARE MEANS OF DAILY HIGH, MEAN, AND LOW VALUES (IN DEGREES CELSIUS). ALL INSTRUMENTS EXCEPT FOR NALST10 ARE LOCATED AT THE SURFACE. NALST10 IS AT MID-DEPTH. A "*" INDICATES DATA LOSS DUE TO INSTRUMENT MALFUNCTION OR PHYSICAL DAMAGE. HOURS OF DATA COLLECTED ARE SHOWN.

STATION NO.	6	5	4	2	1	3	10	7	8	9	11
----- YEAR=92 MONTH=OCTOBER -----											
TYPE	NAL719ST	NAL719NT	NAL208T	NALINT	NALTHIST	NALBRPTT	NALST10	NADISC1	NAWHTF2	NAWHTF3	NARIV601
HIGH	18.5	18.6	19.7	20.1	20.0	21.4	22.0	26.4	25.0	22.9	20.7
MEAN	18.1	18.1	19.3	19.8	19.7	21.1	21.7	27.2	24.6	22.6	20.0
LOW	17.7	17.7	19.0	19.6	19.4	20.9	21.5	26.9	24.2	22.4	19.4
HOURS	743	743	743	744	613	743	743	742	743	743	611
----- YEAR=92 MONTH=NOVEMBER -----											
TYPE	NAL719ST	NAL719NT	NAL208T	NALINT	NALTHIST	NALBRPTT	NALST10	NADISC1	NAWHTF2	NAWHTF3	NARIV601
HIGH	13.4	13.1	14.7	15.4	15.7	17.2	17.4	23.5	20.6	18.4	16.5
MEAN	13.1	12.7	14.5	15.1	15.4	16.9	17.3	23.3	20.2	18.2	16.1
LOW	12.8	12.5	14.2	14.9	15.2	16.7	17.0	23.0	19.7	18.0	15.6
HOURS	520	720	720	720	720	502	720	720	720	720	720
----- YEAR=92 MONTH=DECEMBER -----											
TYPE	NAL719ST	NAL719NT	NAL208T	NALINT	NALTHIST	NALBRPTT	NALST10	NADISC1	NAWHTF2	NAWHTF3	NARIV601
HIGH	*	6.1	*	10.1	10.0	*	12.2	18.1	*	*	11.3
MEAN	*	5.8	*	9.9	9.7	*	11.9	17.7	*	*	11.0
LOW	*	5.5	*	9.7	9.5	*	11.7	17.4	*	*	10.7
HOURS	0.0	744	0.0	561	744	0.0	744	744	0.0	0.0	744

TABLE 2. SUMMARY OF NORTH ANNA FIXED RECORDER TEMPERATURE DATA FOR THE FOURTH QUARTER, 1992. VALUES ARE MAXIMA AND MINIMA OF HIGH AND LOW VALUES (IN DEGREES CELSIUS). ALL INSTRUMENTS EXCEPT FOR NALST10 ARE LOCATED AT THE SURFACE. NALST10 IS AT MID-DEPTH. A "N" INDICATES DATA LOSS DUE TO INSTRUMENT MALFUNCTION OR PHYSICAL DAMAGE. HOURS OF DATA COLLECTED ARE SHOWN.

STATION NO.	6	5	4	2	1	3	10	7	8	9	11
----- YEAR=92 MONTH=OCTOBER -----											
TYPE	NAL719ST	NAL719NT	NAL208T	NALINT	NALTHIST	NALBRPTT	NALST10	NADISC1	NAWHTF2	NAWHTF3	NARIV601
HIGH	21.0	21.5	22.1	22.4	22.2	23.7	24.3	49.8	27.7	24.9	22.9
LOW	15.0	14.9	16.6	17.3	17.5	18.6	19.3	24.5	21.8	20.2	17.3
HOURS	743	743	743	744	613	743	743	742	743	743	611
----- YEAR=92 MONTH=NOVEMBER -----											
TYPE	NAL719ST	NAL719NT	NAL208T	NALINT	NALTHIST	NALBRPTT	NALST10	NADISC1	NAWHTF2	NAWHTF3	NARIV601
HIGH	15.9	16.1	17.1	17.9	18.3	18.8	19.6	25.6	23.3	20.3	19.1
LOW	10.9	10.7	12.7	13.3	13.6	14.9	15.5	20.8	18.2	16.6	14.1
HOURS	520	720	720	720	720	502	720	720	720	720	720
----- YEAR=92 MONTH=DECEMBER -----											
TYPE	NAL719ST	NAL719NT	NAL208T	NALINT	NALTHIST	NALBRPTT	NALST10	NADISC1	NAWHTF2	NAWHTF3	NARIV601
HIGH	N	11.0	N	13.4	13.6	N	15.7	22.3	N	N	14.8
LOW	N	3.1	N	8.0	7.6	N	10.0	14.6	N	N	9.0
HOURS	0.0	744	0.0	561	744	0.0	744	744	0.0	0.0	744

IN LAKE ANNA.

[illegible]

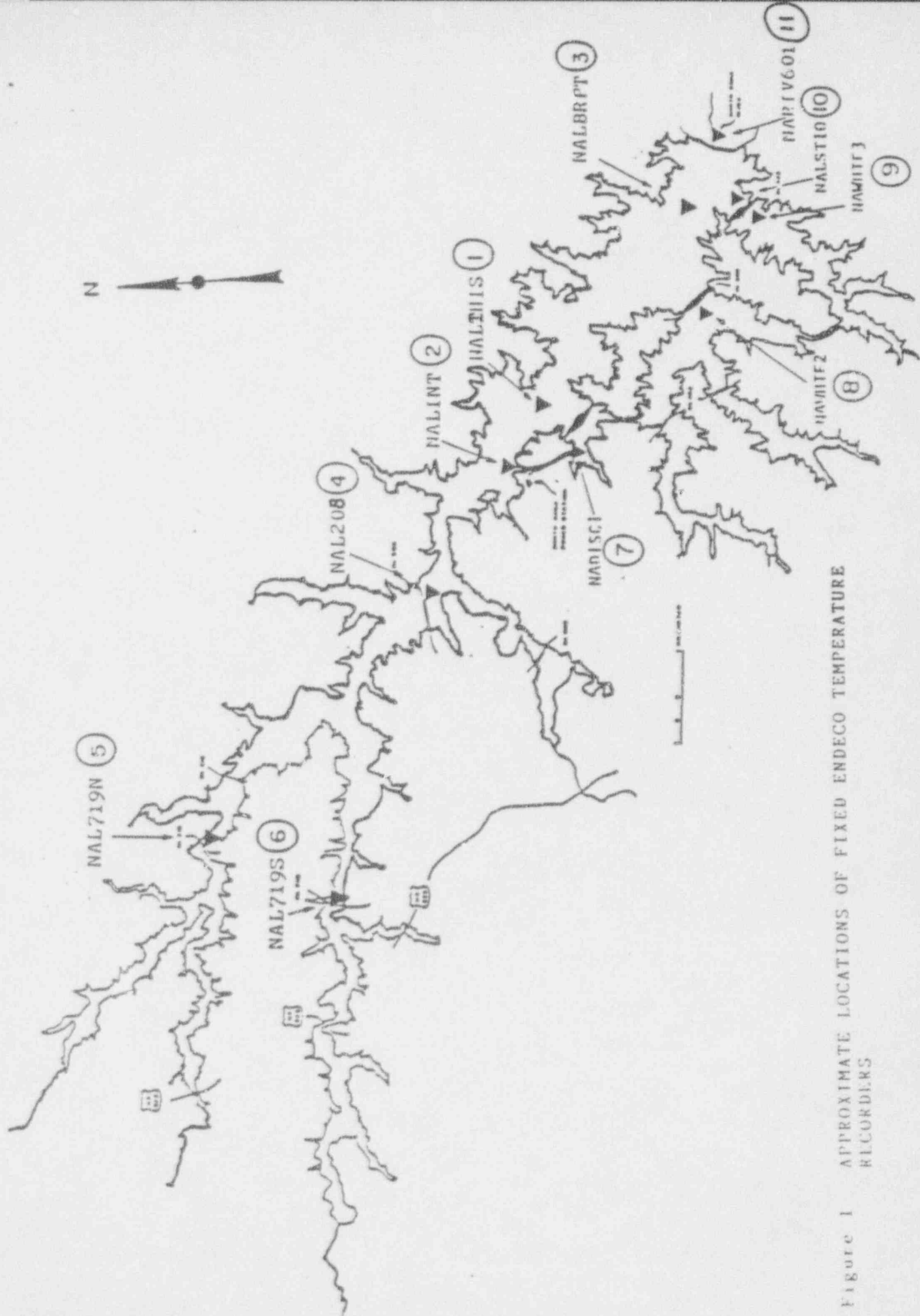


Figure 1 APPROXIMATE LOCATIONS OF FIXED ENDECO TEMPERATURE RECORDERS

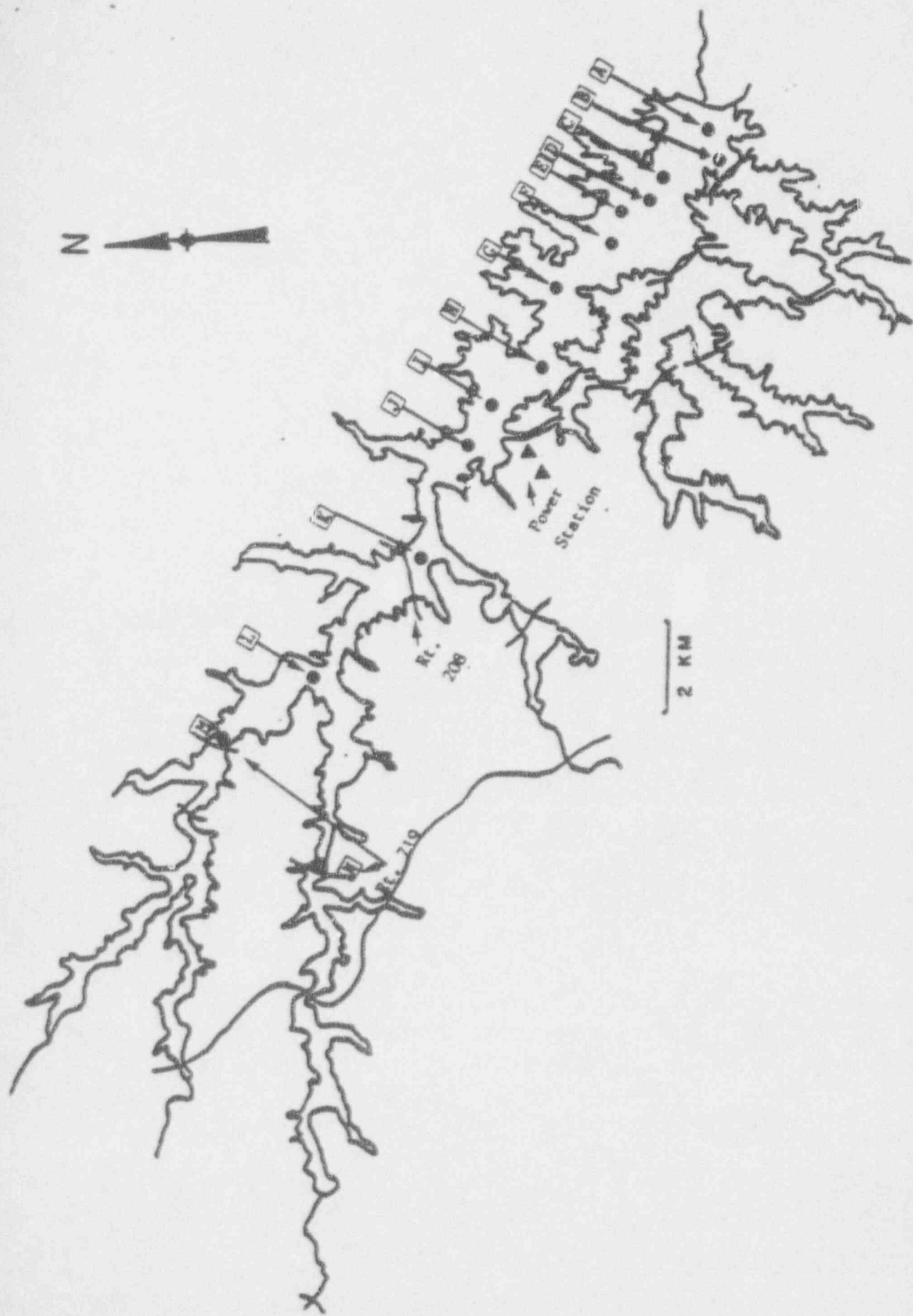


Figure 2 APPROXIMATE LOCATIONS OF THERMAL PLUME SAMPLING STATIONS

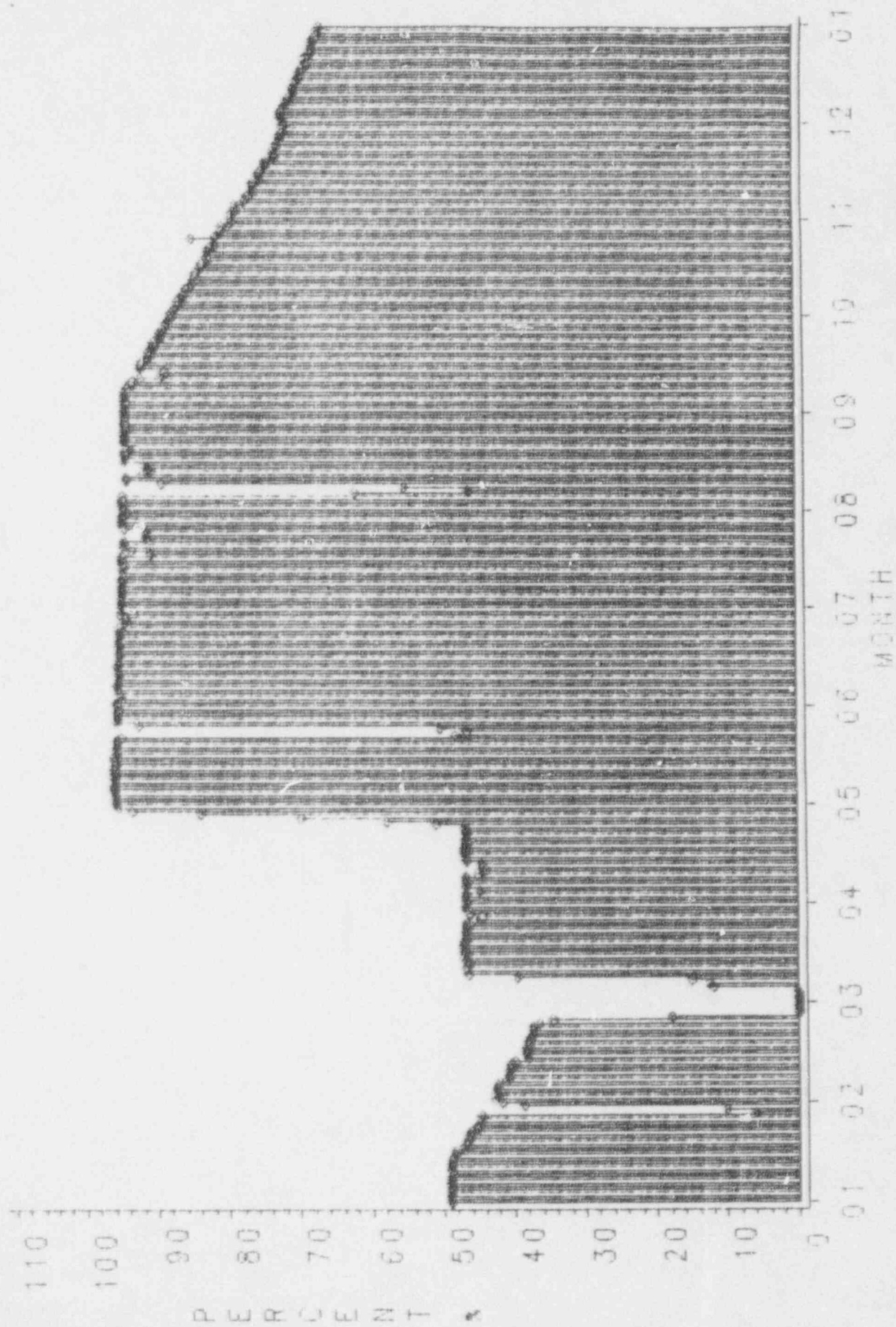


FIGURE 3. 1992 NORTH ANNA UNITS 1 & 2 DAILY POWER LEVEL