PSNH PUBLIC SERVICE Company of New Hampshire SEABROOK STATION Engineering Office: 1671 Worcester Road Framingham, Massachusetts 01701 (617) - 872 - 8100

November 29, 1982

SBN-390 T.F. B7.1.2

United States Nuclear Regulatory Commission Washington, D. C. 20555

Attention: Mr. George W. Knighton, Chief Licensing Branch No. 3 Division of Licensing

- References: (a) Construction Permits CPPR-135 and CPPR-136, Docket Nos. 50-443 and 50-444
 - USNRC Memorandum, dated October 14, 1982, "Notice of Meeting Regarding Open Items in the Safety Review,"
 L. L. Wheeler to J. D. Kerrigan
 - (c) USNRC Memorandum, dated September 17, 1982, "Radiological Assessment Branch Site Tour of Seabrook Station," L. L. Wheeler to J. D. Kerrigan
- Subject: Response to Open Items (SRP 11.5.2, 12.3.2, 12.3.4; Effluent Treatment Systems Branch, Radiological Assessment Branch)

Dear Sir:

The following open items were discussed at the referenced meetings. A summary of each Open Item and our response is provided below:

1. Open Item (SRP 11.5.2; Effluent Treatment Systems Branch)

Summary: The Process and Effluent Monitoring and Sampling System provision for radioiodines and particulates during the course of a postulated accident has not been addressed.

Response: In accordance with NUREG-0737 (Table II.F.1-2), provisions for obtaining samples of radioiodines and particulates from plant gaseous effluents, during the course of a postulated accident, have been included in the design of the Process and Effluent Monitoring and Sampling System.

A detailed discussion will be incorporated in OL Application Amendment 48 in FSAR Section 12.3.4 entitled "Plant Vent Monitor" as follows:

Provisions for obtaining samples of radioiodines and particulates during \mathcal{R}^{00} the course of a postulated accident are included in the Seabrook design as part of the plant vent monitor. These sampling provisions are located downstream of the isokinetic nozzles. The air flow enters the sample conditioning skid of monitor RM-6528 at a flow rate of ≈ 0.06 cfm during United States Nuclear Regulatory Commission Attention: Mr. George W. Knighton

postulated accident conditions. This skid is intended to provide representative particulate and radioiodine samples for laboratory analysis (for normal operation as well as accident conditions) and to prevent contamination of the gas monitors. A multiple filter arrangement is provided so as to allow sampling capabilities for the duration of the measurement period. Each filter is equipped with a 477 solid lead shielding and quick disconnect fittings to minimize personnel exposures. In addition, all functional control is done remotely.

2. Open Item (SRP 11.5.2; Radiological Assessment Branch)

Summary: The applicant has not included noble gas monitors for the steam generator atmospheric relief values or the safety values as required by NUREG-0737.

Response: FSAR Table 11.5-1 (Sheet 1 of 2) has been revised (see Attachment A) to include the Range and Reference Isotope of the Main Steam Line Monitors. The revised version of FSAR Table 11.5-1 will be included in OL Application Amendment 48.

3. Open Item (SRP 12.3.2; Radiological Assessment Branch)

Summary: Submit information pertaining to Item II.B.2 of NUREG-0737, "Design Review of Plant Shielding and Environmental Qualification of Equipment for Spaces/Systems Which May be Used in Post-Accident Operations."

Response: The Radiological Assessment Branch Review (Mr. Sy Block) has been provided a copy of the Seabrook Post-Accident Shielding Analysis for his review.

4. Open Item (SRP 12.3.2; Radiological Assessment Branch)

Summary: Submit information pertaining to Item II.F.1.3 of NUREG-0737, "Containment High-Range Radiation Monitor."

Response: FSAR Section 12.3.4.1.b.3 (FSAR Page 12.3-16) has been revised (see Attachment A) to include the commitment to "design, locate, calibrate, and qualify" the containment high-range radiation monitors in "accordance with Table II.F.'-3 of NUREG-0737."

5. Open Item (SRP 12.3.2; Radiological Assessment Branch)

Summary: Submit information pertaining to Item III.D.3.3 of NUREG-0737, "Improved Inplant Iodine Instrumentation Under Accident Conditions."

Response: A new FSAR Section 12.3.4.3 entitled "Post-Accident Inplant Iodine Assessment," will be included OL Application Amendment 48 (see Attachment A).

FSAR Section 12.5.2.1 has been revised (see Attachment A) to address gamma detection equipment which is available in the Health Physics Counting Room and Radio-Chemistry Laboratory to detect the presence of iodine in air samples. The revised version of FSAR Section 12.5.2.1 will be included in OL Application Amendment 48. United States Nuclear Regulatory Commission Attention: Mr. George W. Knighton November 29, 1982 Page 3

6. Open Item (SRP 12.3.4; Radiological Assessment Branch)

Summary: Airborne radioactivity monitoring ventilation monitors are installed downstream of filters so they can not monitor for implant airborne radioactivity.

Response: FSAR Section 12.3.4.2.b.2.(c) (FSAR Page 12.3-20) has been revised (see Attachment A) to include monitoring of Primary Auxiliary Building exhaust air upstream of filters.

FSAR Section 12.3.4.2.b.5 (FSAR Page 12.3-23) has been revised (see Attachment A) to include an increase in the number of Portable Continuous Air Monitors and their normal locations.

The above FSAR revisions will be included in OL Application Amendment 48.

Very truly yours,

YANKEE STOMIC ELECTRIC COMPANY

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J. DeVincentis Project Manager

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cc: Atomic Safety and Licensing Board Service List

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(TABLE 11.5-1 (Sheet 1 of 2)

PROCESS AND EFFLUENT RADIATION MONITORS

INSTRUMENT TAG NO. RE-	DESCRIPTION	DETECTOR TYPE	BACK- GRD. < mr/hr	RANGE LOW-HICH	(Note S) ALARM SET POINT (2/C1/cc)	REFERENCE	DETECTOR QTY. PER UNIT	SAFETY	ENERGY* LEVEL	LOOP DIA 9763-M	G. P&ID 9763-F	
6502	Waste Gas Inlet to Carbon Delay Beds	Gamma Scint	15.0	10-2 10+?		Xe ¹³³	1-Unit 1 only	Non 1E	Note 1	506897	805611	
6503	Viste Gas Compresser Inlet	Gamma Scint	15.0	10-3 10+1		Kr ⁸⁵	1-Unit 1 only		Note 1	506898	805612	
6504	H ₂ Cas Compressor Disch.	Gamma Scint	15.0	10 ⁻³ 10 ⁺¹	ant)	85 Kr	l-Unit l only		Note 1	506899	805612	
6505	Condenser Air Evac	Beta Scint	0.5	Note 3	100	Xe ¹³³	l per Unit		Note 1	506055	202093	
6500	Boron Recovery Stor. Tank Inlet	Gamma Scint	1.0	10 ⁻⁵ 10 ⁻¹	ton o	co ⁵⁸ ,1 ¹³¹ ,cs ¹³⁷	1-Unit 1 only		Note 2	506105	805614	
6501	Boron Recovery Test Tank Inlet	Gamma Scint	2.5	10 ⁻⁶ 10 ⁻³	operat	co ⁵⁸ , 1 ¹³¹ , cs ¹³⁷	1-Unit 1 only		Note 2	506113	805624	S B
6515,6516	Primary Component Cooling Water	Gamma Scint	2.5	10 ⁻⁷ 10 ⁻³	littal	co ⁵³ ,1 ¹³¹ ,cs ¹³⁷	2 per Unit		Note 2	506190	805016	FSAR
6509	Liquid Waste Test Tk Disch to CWS	Gamma Scint	2.5	10 ⁻⁶ 10 ⁻²	ing ir	co ⁵⁸ ,1 ¹³¹ ,63 ¹³⁷	l-Unit l only	۳.,	Note 2	506927	805621	2
6514	Waste Liquid From Evaporators	Gamma Scint	2.5	10 ⁻⁶ 10 ⁻²	ned dur	co ⁵⁸ ,1 ¹³¹ ,CB ¹³⁷	l-Unit 1 only		Note 2	506931	805621	
6510,6511 6512,6513	Steam Cen Blowdown Sample Loops 1,2,3,4	Gamma Scint	2.5	10 ⁻⁶ 10 ⁻²	tabils	ce ⁵⁸ ,1 ¹³¹ ,cs ¹³⁷	4 per Unit		Note 2	506815	805025	
6519	Steam Gen Blowdown Flash Tank Drain	Gamma Scint	2.5	10-7 10-3	pe es	58,1 ¹³¹ ,CS ¹³⁷	l per Unit.	"	Note 2	506734	805024	
6520-1,2	Reactor Coolant Gross Activity Monitor	Gamma Scint	2.5	10 ⁻⁴ 10 ⁺³	(To	58,1 ¹³¹ ,cs ¹³⁷	2 per Unit	"	Note 2	506297	805011	
6481-1, 6482-1 6481-2, 6482-2	Main Steam Line Monitor	СМ	2.5 Ю	$(\frac{1}{1} + \frac{1}{10})^{+4} m R_{1}$	/hr (Xe-133	4 per Unit		•	506551 -2, -3, -4	202074	Amendment February 19
6560	RS TK-79A & B Filter	ан ;	> 100	Note 4			1-Unit 1 only	Non 1E		506	44 805613	iry
6561	Screen Monitor	GM	15	Note 4			1-Unit 1 only	Non 1E		506694	805613	t 44 1982
6564	Screen Monitor	GB	15	Note 4			l-Unit 1 only	Non 1E		586692	805613	Nt

* See Table 11.5-1 (Sheet 2) for notes.

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A typical channel is shown in Figure 12.3-18.

High radiation during refueling at the manipulator crane area in the containment structure initiates isolation of the containment purge and vent system.

Detectors designated as non-Class lE located inside the containment structure are not designed to operate following a major LOCA, and are assumed to be not available to monitor post-LOCA conditions inside containment.

Refer to Section 11.5.2 for a discussion of the local microprocessor provisions and operating details.

1. Area Monitor Detectors

The area monitors employ Geiger-Mueller and ion chamber gamma detectors, as indicated on Table 12.3-13.

2. Class iE Requirements

Separate redundant cabinets are provided in the control room for control, recording and remote indication for the monitors in Table 12.3-13 designated as Class 1E. These cabinets and Class 1E area monitors are powered from their respective Class 1E inverters. Class 1E monitors supply their data to the RDMS host computer through an IEEE-279 acceptable isolation device. No information or alarm setting is permitted between the RDMS host computer and the Class 1E equipment. All set-point changes and check-source insertions are performed locally or from hard-wired modules in the control room.

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3. In-Containment High Range Monitoring

Class lE redundant detectors are located inside containment near the top of the dome to monitor conditions during post-LOCA conditions. The detector range is $10^{0}-10^{7}$ R/hr. The electronics cabinet is located outside containment in tH electrical tunnels. Indication and alarm is provided in the control room. * insert

4. Containment Manipulator Crane Area Monitor-Channels 6535 A and B

Class LE redundant detectors are located on the manipulator crane. In the event of a fuel handling accident, these monitors isolate the containment on-line and off-line purge isolation valves. Indication and alarm is provided locally and in the main control room.

* These monitors will be designed, located, calibrated and qualified in accordance. With Table II. F. 1-3 of NUREG - 0737. Indication and alarm is available locally near the cleanup filter, and remotely in the main control room.

(e) Containment Enclosure Monitor - Channel 6568

This detector is located in the exhaust duct from the containment enclosure at the inlet to the cleanup filter. The detector monitors the gross activity exhausted from the containment enclosure. Indication and alarm is available locally near the cleanup filter, and remotely in the control room.

(f) Control Room Air Intake Monitors - Channels 6506A and B, 6507A and B

Four detectors are located in the east air intake structure and four detectors are located in the west air intake structure. Two detectors at each intake structure are dedicated to each unit. These detectors, which are Class IE, monitor the control room air intake and automatically shut down, on a high radiation signal, their respective control room ventilation fans and isolation dampers.

Indication and alarm is provided locally. Indication, recording and alarm is provided in the main control room.

5. Portable Continuous Air Monitors (CAM)

Four por able continuous air monitors are available. These devices are composed of a beta scintillation detector which monitors a fixed particulate filter. Downstream of the filter is a charcoal cartridge which can be removed for laboratory analysis. The device also includes a pumping system, flow rate measuring device, a microprocessor and an interface connection with the RDMS host computer. The range of the CAM's is 10⁻¹⁰ and 10⁻⁶ microcuries per cubic contineter.

6. Calibration and Maintenance

Refer to Subsection 11.5.2.6 for calibration and maintenance details.

12.3.4.3 Post Accident Inplant Iodine Assessment

The capability exists for the determination of airborne radioiodine levels inplant under accident conditions. This capability includes the use of air samplers with radioiodine specific sample cartridges and the use of high resolution gamma spectroscopy instrumentation for sample analysis. Information on portable air sampling and counting room equipment is discussed in Sub section 12.5.2. This sampling and analysis is described in station procedures 12.3-23

see next page

to which station personnel are trained.

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5. Postable Continuous Air Monitors (CAM)

Eight portable continuous air monitors are available. The CAMs are equipped to monitor particulate, iodine, and noble gas. Iodine cartridges are removed from the CAMs for laboratory analysis (as described in 12.5.2.1).

The normal locations for the CAMs are as follows:

- o 1 per Control Room
- o 1 per Primary Auxiliary Building
- o 1 per Fuel Storage Building
- o 1 per Containment (on the operating floor during refueling outages)

CAMs may be moved to other station locations as radiological conditions dictate.

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12.5.2.1 Counting Room Equipment

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The instrumentation in the Counting Rooms is used for determining airborne radionuclide concentrations, removable contamination, and radionuclide concentrations in liquid samples.

There are two Counting Rooms that house the fixed radiation detection equipment. The Health Physics Control Station has a Counting Room that is equipped with alpha, beta and gamma detection equipment to analyze routine air samples and contamination survey smears. The Health Physics Counting Room is supplemented by a Counting Room located in the Radio-Chemistry Laboratory when additional analysis capabilities are required. The gamma detection equipment includes two high purity intrinsic germanium detectors equipped with multichannel analyzers. This gamma detection equipment is available in the Health Physics Counting Room and Radio-Chemistry Laboratory. NUREG-0737, Item III.D.3.3 requires the capability to remove air samples (for iodine) to a low background area for analysis. This gamma detection equipment (described above), which is available in two locations, satisfies this requirement.

The equipment located in the Radio-Chemistry Laboratory Counting Room will be capable of detecting, as a minimum, alpha, beta, and gamma activity (as specified above). This Counting Room equipment is used primarily for quantitative and qualitative analysis of liquid.

Criteria for equipment selections are numerous and include accuracy, stability under various atmospheric conditions, sensitivity, and compatibility with many types of peripherals. One detector system is equipped with automatic sample changing and printout devices in order to maximize speed and ease of operation for large numbers of samples which could be expected during various phases of station operation.

P12.5-2

Indication and alarm is available locally and in the main control room for both units.

See Subsections 5.2.5.3.b.2, 5.2.5.5.b and 5.2.5.5.c for a further discussion of monitoring requirements.

(b) Waste Process Building Monitor - Channel 6531

The major potential release of airborne radioactivity in the waste processing building is that associated with the gaseous waste processing system. The gas dryers, carbon delay beds and the two gas compressors are situated in their individual compartments, and these compartments are ventilated in such a way that they are at a negative pressure with respect to surrounding areas. The ducted ventilation exhaust is continuously sampled and monitored. The sample is returned to the ducted ventilation exhaust line which is directed to the Unit 1 vent. Both the sampling point and the return are downstream of the filters in the ventilation exhaust line outside the building. Information from this channel is displayed and alarmed on the radiation monitoring system panel in the main control room of Unit 1 and locally.

(c) Primary Auxiliary Building Monitor - Channel 6532

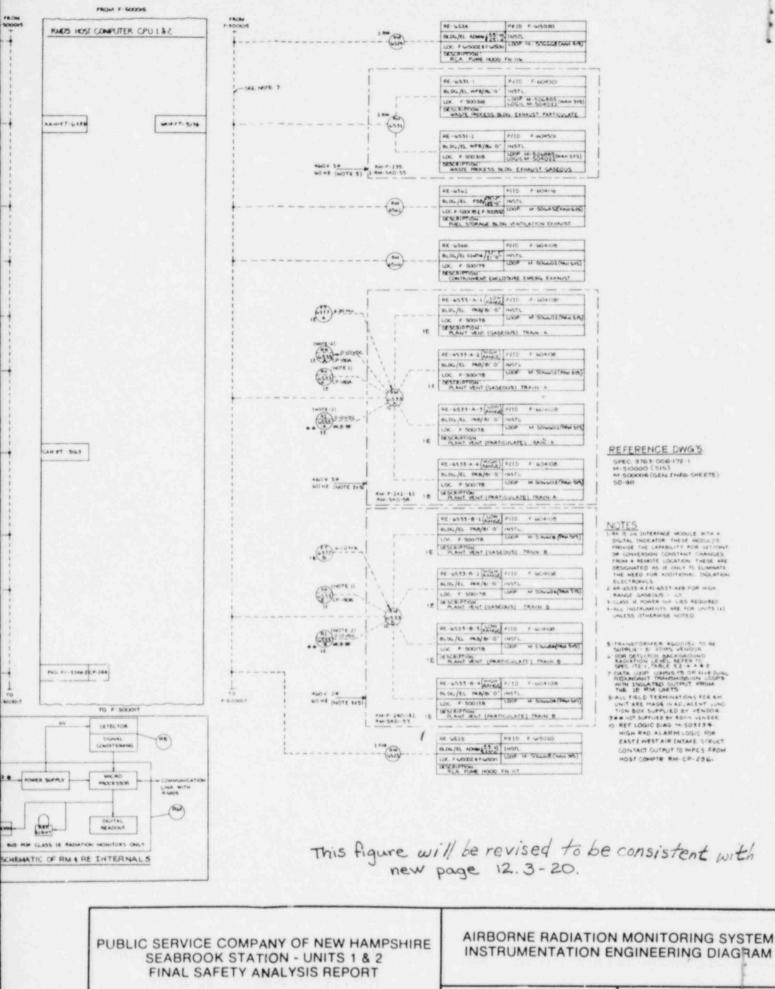
Three minimum ventilation areas have been defined for the primary auxiliary building:

- Heat exchanger, thermal regeneration demineralizer, and mixed bed demineralizer area,
- (2) Volume control tank area, and
- (3) Charging pump area.

These areas, which are potential sources of airborne activity, are maintained at a negative pressure with respect to surrounding areas, and have their own ventilation exhaust ducting, filters, and fans which direct the exhaust air to the plant vent. A continuous each of the two air sample is removed from the ducting downstream of the ducts on the inlet filters and monitored for particulate and gaseous activity. The sample is returned to the ventilation exhaust line, again, downstream of the filters. Indication and alarm is available locally and in the main control room for both units. An alarm indication on these monitors would trigger a radiological evaluation within the areas served by these monitored ventilation lines. The evaluation would be performed by station HP personnel using portable. Survey and/or air sampling equipment, as necessary, to 12.3-20locate the source of the ejevated ventilation line indication,

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BLDC./CL PAN/ SVIE , NO.	Buttournow P(10 F-workide B: 01 INSTL UDO M: S0L, S16 (NM 150) B: 01 INSTL B: 02 M: S0L, S16 (NM 150) B: 04 FILE B: 05 M: S0L, S16 (NM 150) B: 04 FILE B: 05 FILE B: 04 FILE B: 05 FILE B: 0			
DESCRIPTION	P(10 F-w04108 B: 0' INSTL UDP M-90x.516 (PM 199) B: 0: F-w04108 P(10 F-w04108	BLDC / D. PAR STAT , MIST	565	
CRAS MITRU MENTOLATION	8. 5 INSTL UDD M. 502, 516 (PM) 300 B. 02, FD TERED DV PMPTCULATE P(10 F. 40408 (00 M STL UDD M. 502, 528 (MUL 48) (00 M STL UDD M. 502, 528 (MUL 48) (00 M STL (00 M STL (00 M STL) (00 M STL (00 M STL) (00 M STL) (00 M STL (00 M STL) (00 M ST	BLDC / DL PAN 5576 1055		
	USOP M.F. 500, 558 (1944) 580 Br. Ox. FID TERED CAN PRAFY CALLATE (10) P/10 F. WORKDB P/10 F. WORKDB IDOP M.SOL 502 (1946) 5400 MASTL (10)	BLDC / DL PAN 5576 1055		
	Brids Fritteld Dav Phatriculate (10) P(10 F-bolice Brids NOTL UD0* No 504,598,804,488 No 71, No 504,598,804,488 No 72, 10 No 504,598,804,488 No 72, 10 No 72,940,510	BLOC / DL PAQ 35747 PAST 10007 LOC F-500275 (F-50025 LOOP LOP 50427 PAQ 401506 LOOP LOP 50427 PAQ 401506 PAQ 40150 LOP 50427 RE-10531-1 P(10 F-4004100		
MESON STATE	P(10 F-60406	BLDC./DL PMA/3376* HISS LOC.FROMTS (FROM S) LOOP VOC.FROMTS (FROM S) LOOP PAD_MISS_MENTILATION RE-HISS1-1 P(10 BLOC/CL PMA(6:02)		
(1)	(8: 0 N-57). USOP N- 504 518 (H-42 HS) N- 1544-57 (H-4 57) KM-P-256 HSON 14	BLDC./DL PMA/ 33141 PMS LOC.FACITS (# 50015) LOOP KR-105421 \$(%) MSS.TER.FACITS LOOP KR-105421 \$(%) MSS.TER.FACITS P(10 F=4004108 BLOC./DL PA8, 65 51 INS FL LOC. F. 500516 LOOP M-502, 556 (%) LOC. F. 500516 LOOP M-502, 556 (%)		
BLOG/EL PAB/B' O INSTL	LCOP M- 504.518 (MAL 98) No 124403 (MAL 97) KM-P-134	BLDC./DL PRAY 33747 HIST. LOC. FROMS (FROM S) LOOP LOC. FROM S) LOOP RE-HISS	ATE (NO)	
1	RM-P-236 400V 18	BLDC./DL PRA/3376 HIST:		
RM-P-236 405V 14		BLDC / RL PAQ 33745 PISS / L LOC FROMS (FROM S) LOOP ME 75042 PESSIPPOSI PESS (FROM S) PESSIPPOSI PAG (FROM S) PESS (FROM S) PESSIPPOSI RE6531-1 PEES PEES RE6531-2 PEES PEESS (FROM S) RE6532-2 PEESS (FROM S) PEESSIPPOS RE6532-2 PEESS (FROM S) PEESSIPPOS RE6532-2 PEESS (FROM S) PEESSIPPOS RE6532-3 PEESS PEESSIPPOS		
BRUNE AN BOS OUTRED FOR BASEOUS RANFO ST (MOTE S) GO HE	A case of a second	BLDC./DL PRA/3376 HIST:		
In the second second		BLDC./RL PRA/3376 (155) LOC FRONTS (FROM 5) (100° KM-15040-33%) (PS23007056 PAS_MISS_VELNTILATION RE0531-1 P(10 F-404105 BLDC./RL PRA/6 07 INSTL LOC F 50076 U00° KM-550595 (PM 550505 (PM 550505 (PM 550505 (PM 550505 (PM 550505 (PM 550505 (PM 	Num	5) 60 H2
PE-I POMP MOTOR		BLDC./DL PRAY DYNE PISSIO LDC. FRAZERY PISSION LDC. FRAZERY PISSION PRESCRIPTERS PISSION PISSION PISSION PISSION <td>Num</td> <td>5) 40 HZ</td>	Num	5) 40 HZ
	A36Y BIAPTER	BLDC./DL. PRAY 3016 MSN LDC. FOLDTS (F 5005) MDD* MERCENDER PAD PAD MSN RE6531-1 P(10 BLDC./DL. PRAY 50: 01 RE6531-1 P(10 BLDC./DL. PRAY 50: 01 RE6532-1 P(10 BLDC./DL. PRAY 50: 01 RE6532-2 P(10 PERMERTY MAR, 50: 00: FILTERED DAY PRATICALLY RE6532-2 P(10 RE6532 P(10 RE6532 P(10	NU-P-2 St	5) 40 HZ
		В.D.С. / D. PAN/ 1976 - 105-1 LOC - FOLDES (+ 500 %) LOC - FOLDES (+ 500 %) LOC - FOLDES (+ 500 %) RESULTS (+ 5	NU-P-2 St	5) 60 HZ
Provident State Assor		В.D.С. / D. PAN/ 1976 - 105-1 LOC - FOLDES (+ 500 %) LOC - FOLDES (+ 500 %) LOC - FOLDES (+ 500 %) RESULTS (+ 5	NU-P-2 St	5) 40 HZ
PINE - ANAT STANDARD PINE - ANAT STANDARD	ANST SCHOOLEN SCHOOLEN RIS RE-2 RM-	BLDC./DL. PRAY 3374 PISTIC LOC. FRAZESTIC PISTIC LOC. FRAZESTIC PISTIC LOC. FRAZESTIC PISTIC PAS. INTEL. VELISTICATION RE0533-1 PITO BLOC./CL. PRAJ (6: 0) INSTIL LOC. F SODOTE LOOP LOC. F SODOTE LOOP RE0533-1 PITO BLOC./CL. PRAJ (6: 0) INSTIL LOC. F SODOTE LOOP RE0532-1 PITO RE0532-1 RE-0500 RE0532-1 RE-0500 RE-0532-1 RE-0500 RE-0532-1 RE-0500 RE-0532-1 RE-0500 RE-05000 RE-0500 RE-050000 RE-05000 RE-1500000	No F-1 34 Ros- F	3) 40 HZ
ANST MATTICLER POLYTER FULT		BLDC./DL. PRAY BY/E PRS/1 LDC. FRAZES PRS/1 LDC. FRAZES PRS/1 LDC. FRAZES PRS/1 PRS/1 PRS/1 PRS/1 PRS/1 PRS/1 PRS/1 RE0531-1 PR10 RE0531-1 PR10 LDC. FRAZES PR00 PRS/1 PR10 LDC. FSOOTE UDOP PRS/1 PR00 PRS/1 PR00 PR00 PR00	NT (1007)	3) 40 ×2



9763-F-500016

FIGURE 12.3-19