d. <u>Containment Integrity*</u>

Containment integrity is defined to exist when:

- All non-automatic containment isolation valves and blind flanges are closed as required.
- The equipment hatch is properly closed.
- 3) At least one door in each personnel air lock is properly closed.
- All automatic containment isolation valves are operable or are secured closed.
- 5) The uncontrolled containment leakage satisfies Specification 15.4.4.
- e. Protective Instrumentation Logic
 - 1) Analog Channel

An analog channel is an arrangement of components and modules as required to generate a single protective action signal when required by a plant condition. An analog channel loses its identity where single action signals are combined.

*Containment isolation valves are discussed in FSAR Section 5.2.

8604170056 860410 PDR ADOCK 05000266 P PDR for indications of leakage within the containment will be conducted to enhance early detection of problems and to assure best on-line reliability.

If leakage is to another system, it will be detected by the plant radiation monitors and/or water inventory control.

Continuous monitoring of steam generator tube leakage is accomplished by either the individual unit Air Ejector Radiation Monitor, the combined Air Ejector Radiation Monitor, or the Steam Generator Blowdown Radiation Monitor in combination with periodic surveillance of the primary coolant activity. Backup monitoring can be accomplished by sampling secondary coolant gross activity.

References

FSAR Section 6.5, 11.2.3

E. <u>Maximum Reactor Coolant Oxygen and Chloride and Fluoride Concentration</u> For Power Operation

Specification:

- 1. The concentration of oxygen in the reactor coolant shall not exceed 0.1 ppm.
- The concentration of chloride and of fluoride in the reactor coolant shall not exceed 0.15 ppm each.
- 3. If the oxygen concentration and the chloride or fluoride concentration of the reactor coolant simultaneously exceed the limits given in 1) and 2) respectively, corrective action is to be taken immediately to return the system to within normal operation specifications. If the normal operational limits are not achieved within 24 hours, the reactor is to be brought to a hot shutdown condition. If the system is not brought to within specifications within an additional 24-hour period, the system is to be brought to a cold shutdown condition, and the cause of the out-of-specification operation ascertained and corrected.

Basis:

By maintaining the oxygen, chloride and fluoride concentration in the reactor coolant within the limits as specified by E 1), 2) and 3), the functional integrity of the materials of the Reactor Coolant System is assured under all operating conditions. (1)

If these limits are exceeded, measures can be taken to correct the condition, e.g., replacement of ion exchange resin or adjustment of the hydrogen concentration in the volume control $\tan k^{(2)}$, and further because of the time dependent nature of any adverse effects arising from oxygen, chloride and fluoride concentration in excess of the limits, it is unnecessary to shut down immediately since the condition can be corrected. Thus the period of 24 hours for corrective action to restore the concentrations within the limits has been established. If the corrective action has not been effective at the end of the 24 hour period, then the reactor will be brought to the hot shutdown condition and the corrective

15.3.1-15

- D. During power operation, the requirements of 15.3.2-B and C may be modified to allow the following components to be inoperable for a specified time. If the system is not restored to meet the requirements of 15.3.2-B or C within the time period specified, the appropriate reactor(s) except as otherwise noted, shall be placed in the hot shutdown condition. If the requirements of 15.3.2-B or C are not satisfied within an additional 48 hours, the appropriate reactor(s) shall be placed in the cold shutdown condition.
 - One of the two operable charging pumps associated with an operating reactor may be removed from service provided a charging pump associated with that same reactor is restored to operable status within 24 hours.
 - One of the boric acid transfer pumps designated in B.2 or C.2 may be out of service provided a pump is restored to operable status within 24 hours.
 - 3. For the system piping and valve operability requirements (B.4 and C.4):
 - a. The flow path from the boric acid tank to a reactor coolant system may be out of service provided the flow path is restored to operable status within 24 hours.
 - b. The flow path from the refueling water storage tank to the reactor coolant system may be out of service provided the flow path is restored to operable status within one hour. If the flow path cannot be restored to operable status within one hour, the reactor shall be placed in cold shutdown within the next 30 hours.

requirements of 15.3.3.C-1 are not satisfied within an additional 48 hours, the reactor shall be placed in the cold shutdown condition.

- a. One of the assigned component cooling pumps may be out of service provided a pump is restored to operable status within 24 hours.
- b. One heat exchanger or other passive component may be out of service provided repairs can be completed within 48 hours.

Two Unit Operation

- Both reactors shall not be made critical unless the following conditions are met:
 - a. Three component cooling pumps are operable.
 - b. Three component cooling heat exchangers are operable.
 - c. All valves, interlocks and piping required for the functioning of the system during accident conditions and associated with the above components are operable.
- 2. During power operation, the requirements of 15.3.3.C-1 may be modified to allow one of the following components to be inoperable at any one time. If the system is not restored to meet the conditions of 15.3.3.C-1 within the time period specified, one reactor shall be placed in the hot shutdown condition.
 - a. One of the three assigned component cooling pumps may be out of service provided a pump is restored to operable status within 24 hours.
 - b. One heat exchanger or other passive component may be out of service provided repairs can be completed within 48 hours.

D. Service Water System

 Neither reactor shall be made or maintained critical unless the following conditions are met:

TABLE 15.3.5-5

INSTRUMENT OPERATING CONDITIONS FOR INDICATIONS

		1	2 MINIMUM	3
		NO. OF	OPERABLE	OPERATOR ACTION IF CONDITIONS
<u>NO.</u>	FUNCTIONAL UNIT	CHANNELS	CHANNELS	OF COLUMN 2 CANNOT BE MET
1.	PORV Position Indicator	1/Valve	1/Valve	If the operability of the PORV position indicator cannot be restored within 48 hours, shut the associated PORV Block Valve.
2.	PORV Block Valve Position Indicator	1/Valve	1/Valve	If the operability of the PORV Block Valve Position Indicator cannot be restored within 48 hours, shut and verify the Block Valve shut by direct obser- vation or declare the Block Valve inoperable.
3.	Safety Valve Position Indicator	1/Valve	1/Valve	If the operability of the Safety Valve Position Indicator cannot be restored within seven days, be in at least Hot Shutdown within the next 12 hours.
4.	Reactor Coolant System Subcoolin	ng 2	1	If the operability of a subcooling monitor cannot be restored or a backup monitor made functional within 48 hours, be in at least Hot Shutdown within the next 12 hours.
5.	Auxiliary Feedwater Flow Rate*	1	1	If the operability of the auxiliary feedwater flow rate indicator cannot be restored within 48 hours, be in hot shutdown within 12 hours.
6.	Control Rod Misalignment as Monitored by On-Line Computer	1	1	Log individual rod positions once/hr., after a load change >10% or after >30 inches of control rod motion.

*Applies to presently installed combination of auxiliary feedwater pump discharge flow indicators and auxiliary feedwater flow to steam generator indicators.

TABLE 15.3.5-5 (Continued)

<u>NO.</u>	FUNCTIONAL UNIT	NO. OF CHANNELS	MINIMUM OPERABLE CHANNELS	OPERATOR ACTION IF CONDITIONS OF COLUMN 2 CANNOT BE MET
7.	Containment High Range Radiation Monitor	3	2	If operability cannot be restored within seven days after failure, prepare a special report to be submitted within thirty days in accordance with 15.6.9.2.D.
8.	Containment High Range Pressure Monitor	2	1	If operability cannot be restored within 48 hours, be in hot shutdown within twelve hours
9.	a. Containment Water Level Keyray	2	1	Operation may continue up to thirty days. It operability cannot be restored, be in hot shutdown within the next twelve hours.
	b. Containment Water Level Sump B Continuous Indication	2	1	If the operability cannot be restored within 48 hours, be in hot shutdown within twelve hours.
10.	Containment Hydrogen Monitors	4	1	If operability cannot be restored within 72 hours, be in hot shutdown within the next six hours.
11.	Reactor Vessel Fluid Level System	4	1	If operability cannot be restored within 48 hours, be in hot shutdown within the next twelve hours.
12.	In-Core Thermocouples	4/core quadrant	2/core quadrant	If operability of at least two thermocouples per core quadrant cannot be restored within 48 hours, be in hot shutdown within the next twelve hours.
13.	Main Steam Line Radiation Monitors (SA-11)	l/steam line	l/steam line	If operability cannot be restored within seve days, prepare a special report to be submitte within thirty days in accordance with 15.6.9.2.E.

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- The RCCA does not drop upon removal of stationary gripper coil voltage.
- b. The RCCA does not step in properly when the proper voltage sequences are applied to the control rod drive mechanism coils. It shall then be assumed inoperable until it has been tested to verify that it does drop.
- c. If the bank demand position is greater than or equal to 215 steps, or, less than or equal to 30 steps, and the rod position indicator channel shows a misalignment from the bank demand position of 15 inches, the RCCA shall be assumed inoperable until it has been tested to verify that it does step properly.
- d. If the bank demand position is between 215 steps and 30 steps, and the rod position indicator channel shows a misalignment from the bank demand position of 7.5 inches, the RCCA shall be assumed inoperable until it has been tested to verify that it does step properly.
- 2. Specification 15.3.10.C.1.b can be modified by the following:
 - a. If an RCCA does not step in upon demand, up to six nours is allowed to determine whether the problem with stepping is an electrical problem. If the problem cannot be resolved within six hours, the RCCA shall be assumed inoperable until it has been verified that it will step in or would drop upon demand.
 - b. If more than one RCCA does not step in, apparently due to electrical problems, the situation shall be rectified or clearly defined that it is an electrical problem and the RCCAs are capable of dropping upon demand or an orderly shutdown shall commence within six hours.
- No more than one inoperable RCCA shall be permitted during sustained power operation.
- 4. When it has been determined that an RCCA does not drop on removal of stationary gripper coil voltage, the shutdown margin shall be maintained by boration as necessary to compensate for the withdrawn worth of the inoperable RCCA. If sustained power operation is anticipated, the insertion limit shall be adjusted to reflect the worth of the inoperable RCCA.

15.3.12 CONTROL ROOM EMERGENCY FILTRATION

Applicability

Applies to the operability of the control room emergency filtration. Objective

To specify functional requirements of the control room emergency filtration during power operation and refueling operation.

Specification

- Except as specified in 15.3.12.3 below, the control room emergency filtration system shall be operable at all times during power operation and refueling operation of either unit.
- a. The results of in-place cold DOP and halogenated hydrocarbon tests, conducted in accordance with Specification 15.4.11, on HEPA filter and charcoal adsorber banks shall show a minimum of 99% DOP removal and 99% halogenated hydrocarbon removal.
 - b. The results of laboratory charcoal adsorbent tests, conducted in accordance with Specification 15.4.11, shall show a minimum of 90% removal of methyl iodide. If laboratory analysis results for in-place charcoal indicate less than 90% methyl iodide removal, this specification may be met by replacement with charcoal adsorbent which has been verified to achieve 90% minimum removal and which has been stored in sealed containers, and retesting the charcoal adsorber bank for halogenated hydrocarbon removal.
 - c. The results of fan testing, conducted in accordance with specification 15.4.11, shall show operation within $\pm 10\%$ of design flow.

Basis

Snubbers are designed to prevent unrestrained pipe motion under dynamic loads as might occur during an earthquake or severe transient, while allowing normal thermal motion during plant startup and shutdown. The consequence of an inoperable snubber is an increase in the probability of structural damage to piping as a result of seismic or other events initiating dynamic loads. It is therefore required that all snubbers required to protect the primary coolant system, and other safety related systems or components, be operable during reactor operation.

Because the snubber protection is required only during relatively low probability events, a period of 72 hours is allowed for repairs or replacement. In case a shutdown is required, the allowance of 36 hours to reach a Coll Shutdown condition will permit an orderly shutdown consistent with standard operating procedures. Since plant power operation should not commence with known defective safety related equipment, Specification 15.3.13.4 prohibits reactor startup with inoperable snubbers. Visual inspection shall be made for excessive leakage from components of the system. Any significant leakage shall be measured by collection and weighing or by another equivalent method.

B. Acceptance Criterion

The maximum allowable leakage from the Residual Heat Removal System components (which includes valve stems, flanges and pump seals) shall not exceed two gallons per hour.

C. Corrective Action

Repairs shall be made as required to maintain leakage within the acceptance criterion of IV-B.

D. Test Frequency

Tests of the Residual Heat Removal System shall be conducted at shutdown for major refueling.

V. Annual Inspection

A detailed visual examination of the accessible interior and exterior surfaces of the containment structure and its components shall be performed annually and prior to any integrated leak test, to uncover any evidence of deterioration which may affect either the containment's structural integrity or leak-tightness. The discovery of any significant deterioration shall be accompanied by corrective actions in accordance with acceptable procedures, nondestructive tests and inspections, and local testing where practical, prior to the conduct of any integrated leak test. Such repairs shall be reported as part of the test results.

IX. Liner Plate

- A. The liner plate will be examined before the initial pressure test to determine the following:
 - (1) Locate areas which have inward deformations. The magnitude of the inward deformations will be measured and recorded. The areas will be permanently marked for future reference. The inward deformations will be measured between the angle stiffeners which are on 15-inch centers. The measurements will be accurate to \pm .01 inch.
 - (2) Try to locate areas having strain concentrations by visual examination paying particular attention to the condition of the liner surface. Record the location of any areas having strain concentrations.
- B. Shortly after the initial pressure test and at about one year after initial start-up, reexamine the areas located in section (A). Measure and record inward deformations. Record observations pertating to strain concentrations.
- C. If the difference in the measured inward deformations exceeds 0.25 inch (for a particular location) and/or changes in strain concentration exist, then an investigation will be made. The investigation will determine the cause and any necessary corrective action.
- D. The surveillance program will only be continued beyond the one year after initial start-up inspection if some corrective action was needed. If required, the frequency of inspection for a continued surveillance program will be determined shortly after the "one year after initial start-up inspection".

The systems tests demonstrate proper automatic operation of the Safety Injection and Containment Spray Systems. With the pumps blocked from starting, a test signal is applied to initiate automatic action, and verification is made that the components receive the safety injection signal in the proper sequence. The test demonstrates the operation of the valves, pump circuit breakers, and automatic circuitry.⁽¹⁾

During reactor operation, the instrumentation which is depended on to initiate safety injection and containment spray is generally checked weekly and the initiating circuits are tested monthly (in accordance with Specification 15.4.1). In addition, the active components (pumps and valves) are to be tested monthly to check the operation of the starting circuits and to verify that the pumps are in satisfactory running order. The test interval of one month is based on the judgement that more frequent testing would not significantly increase the reliability (i.e. the probability that the component would operate when required), yet more frequent testing would result in increased wear over a long period of time.

Other systems that are also important to the emergency cooling function are the accumulators, the Component Cooling System, the Service Water System and the containment fan coolers. The accumulators are a passive safeguard. In accordance with Specification 15.4.1, the water volume and pressure in the accumulators are checked periodically. The other systems mentioned operate when the reactor is in operation and by these means are continuously monitored for satisfactory performance.

References

(1) FSAR Section 6.2.

- Local leakage shall be measured for containment isolation valves that:
 - a. Provide a direct connection between the inside and outside atmospheres of the primary reactor containment under normal operation.
 - Are required to close automatically upon receipt of a containment isolation signal.
 - Are required to operate intermittently under post-accident conditions.

B. Acceptance Criterion

The total leakage from items II.A.5 and III.A.3 shall not exceed 0.6 $\rm L_{a}.$

C. Corrective Action

- If at any time it is determined that 0.6 L_a is exceeded, repairs shall be initiated immediately. After repair, a retest to confirm conformance to the acceptance criterion of III.B is required.
- If repairs are not completed and conformance to the acceptance criterion of III.B is not demonstrated within 48 hours, the reactor shall be taken to cold shutdown conditions until repairs are effected and the local leakage meets this acceptance criterion.

D. Test Frequency

 The above tests of the isolation valves shall be conducted during each shutdown for major fuel reloading but in no case at intervals greater than two years.

- Each diesel generator shall be given an inspection, at least annually, following the manufacturer's recommendations for this class of stand-by service.
- Each fuel oil transfer pump shall be run monthly.

The above tests will be considered satisfactory if all applicable equipment operates as designed.

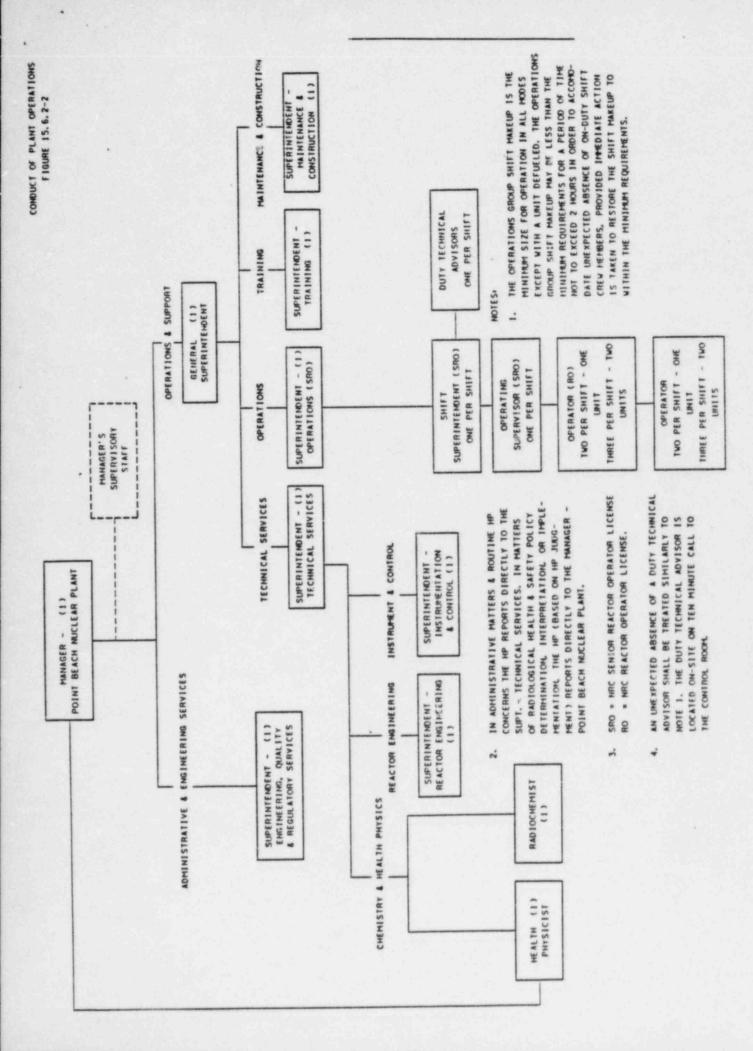
- B. Station Batteries
 - Every month the voltage of each cell (to the nearest 0.05 volt), the specific gravity and temperature of a pilot cell in each battery and each battery voltage shall be measured and recorded.
 - Every 3 months the specific gravity, the height of electrolyte, and the amount of water added, for each cell, and the temperature of every fifth cell, shall be measured and recorded.
 - At each time data is recorded, new data shall be compared with old to detect signs of abuse or deterioration.
 - 4. Each battery shall be subjected to a load test at intervals recommended by the manufacturer but not exceeding five years. The battery voltage as a function of time shall be monitored to establish that the capacity is sufficient to carry the loads as delineated in FSAR Table 8.2-3 for the specified length of time. All electrical connections will be checked for tightness.

G. Fire Pump Diesel Battery and Charger

1.	Test a. Verify electrolyte level the plates	<u>Frequency</u> above Weekly
	b. Verify that the overall be voltage is <u>></u> 24 volts	attery Weekly
2.	Verify the specific gravity is appropriate for continued serve of the battery	Quarter1y
3.	 Verify that the battery, or plates and battery racks so no visual indication of phydamage or abnormal deterior 	how ysical
	 Verify that the battery to and terminal connections a tight, free of corrosion a with anti-corrosion materia 	re clean, nd coated

Basis

Normally, the fire protection system is not in use. However, the system components are required to perform as designed in the event of a fire emergency. The National Fire Protection Association and the plant insurance carrier have specified periodic tests and inspections to demonstrate fire protection equipment operability. The listed tests and inspections include and exceed the requirements of these organizations. Testing more frequently than that listed is not considered necessary to insure operability and performance.



- 15.6.3 FACILITY STAFF QUALIFICATIONS
- 15.6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions or as clarified in 15.6.3.2 through 15.6.3.4.
- 15.6.3.2 Except as provided in 15.6.3.3, the Health Physicist shall meet the following requirements:
 - a. The individual shall have a bachelor's degree or the equivalent in a science or engineering subject, including some formal training in radiation protection. For purposes of this paragraph, "equivalent" is as follows:
 - (1) Four years of formal schooling in science or engineering; or
 - (2) Four years of applied radiation protection experience at a nuclear facility; or
 - (3) Four years of operational or technical experience or training in nuclear power; or
 - (4) Any combination of the above totalling four years.
 - b. Except as provided in d., below, the individual shall have at least five years of professional experience in applied radiation protection. A master's degree in a related field is equivalent to one year of experience and a doctor's degree in a related field is equivalent to two years of experience.
 - c. Except as provided in d., below, at least three of the five years of experience shall be in applied radiation protection work in a nuclear facility dealing with radiological problems similar to those encountered in nuclear power plants.
 - d. If the individual has a bachelor's degree specifically in health physics, radiological health, or radiation protection, at least three years of professional experience is required; if the individual has a master's or a doctor's degree specifically in health physics, radiological health, or radiation protection, at least two years of professional experience is required. This experience shall be in applied radiation protection in a nuclear facility dealing with radiological problems similar to those encountered in nuclear power plants.

- 15.6.3.3 In the event the position of Health Physicist is vacated and the proposed replacement does not meet all the qualifications of 15.6.3.2, but is determined to be otherwise well qualified, then concurrence of NRC shall be sought in approving the qualification of that individual.
- 15.6.3.4 The Duty Technical Advisor shall have a bachelor's degree or equivalent in a scientific or engineering discipline with specific training in plant design and response and analysis of the plant for transients and accidents. The Duty Technical Advisor shall also receive training in plant design and layout including the capabilities of instrumentation and controls in the control room.

15.6.4 TRAINING

- 15.6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Superintendent - Training and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and Appendix A of 10 CFR Part 55.
- 15.6.4.2 A training program for the Fire Brigade shall meet or exceed the requirements of Section 27 of the NFPA Code-1976, except that the meeting frequency may be quarterly.

15.6.5 REVIEW AND AUDIT

15.6.5.1 Manager's Supervisory Staff

15.6.5

- 15.6.5.1.1 The Manager's Supervisory Staff (MSS) shall function to advise the Manager on all matters related to nuclear safety.
- 15.6.5.1.2 The Manager's Supervisory Staff shall be

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	Chairman: Manager - Point Beach Nuclear Plant	
	Member: General Superintendent	
	Member: Superintendent - Operations	
	Member: Superintendent - Maintenance & Construction	
	Member: Superintendent - Engineering, Quality & Regulatory Services	
	Member: Superintendent - Training	
	Member: Superintendent - Technical Services	
	Member: Superintendent - Reactor Engineering	
	Member: Radiochemist	1
	Member: Health Physicist	'
	Member: Superintendent - Instrumentation & Control	
.1.3	Alternate members may be appointed by the MSS	
	Chairman to serve on a temporary basis; however,	23
	no more than two alternates shall vote in MSS at	
	any one time. Such appointment shall be in writ	ing.

15.6.9 PLANT REPORTING REQUIREMENTS

In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following program for reporting of operating information shall be followed. Reports should be addressed to the Director, Office of Inspection and Enforcement, Region III unless otherwise noted.

15.6.9.1 Routine Reports

- A. Startup Report
 - A summary report of plant startup and power escalation testing which addresses each of the tests identified in the FSAR and includes a general description of the measured values obtained during the test program and a comparison of these values with design predictions and specifications must be submitted under the following conditions:
 - a. Receipt of an operating license.
 - Amendment to the license involving a planned increase in power level.
 - c. Installation of fuel that has a different design or has been manufactured by a different fuel supplier.
 - d. Modifications that may have significantly altered the nuclear, thermal, or hydraulic performance of the plant.

Any corrective actions that were required to obtain satisfactory operations shall also be described.

This report shall be submitted within the earliest time frame of the following:

- a. 90 days following completion of the startup tests.
- b. 90 days following resumption or commencement of commercial power operation.
- c. 9 months following initial criticality.
- B. Annual Results and Data Report
 - A results and data report covering the period of the previous calendar year shall be submitted prior to March 1 of each year.
 - 2. This report shall include:
 - a. Complete results of steam generator tube inservice inspection completed during the calendar year as required by specification 15.4.2.A.7
 - b. A tabulation on an annual basis of the number of station, utility, and other personnel receiving exposures greater than 100 mrem/year and their associated man-rem exposure according to work and job functions. The dose assignments to various duty functions may be estimates based on pocket dosimeter, TLD or film badge measurements. Small exposures totalling less than 20 percent of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources shall be assigned to specific major work functions.
 - c. A description of facility changes, tests or experiments as required pursuant to 10 CFR 50.59(b).
 - d. A tabulation of all challenges to the pressurizer power operated relief valves or pressurizer safety valves.

D. Failure of Containment High-Range Radiation Monitor

A minimum of two in-containment radiation-level monitors with a maximum range of 10^8 rad/hr $(10^7/hr$ for photons only) should be operable at all times except for cold shutdown and refueling outages. This is specified in Table 15.3.5-5, item 7. If the minimum number of operable channels are not restored to operable condition within seven days after failure, a special report shall be submitted to the NRC within thirty days following the event outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to operable status.

E. Failure of Main Steam Line Radiation Monitors

If a main steam line radiation monitor (SA-11) fails and cannot be restored to operability in seven days, prepare a special report within thirty days of the event, outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the channel to operable status.

15.6.10 PLANT OPERATING RECORDS

Specification

Records and logs relative to the following items shall be retained for five (5) years unless a longer period is required by applicable regulations.

- A. Records of normal plant operation, including power levels and periods of operation at each power level shall be retained for 5 years except those records of transient or operational cycles for reactor coolant system (RCS) components having a limited number of design transients, shall be retained for the duration of the operating license.
 - B. Records of principal maintenance activities, including inspection, repair, substitution, or replacement of items of equipment pertaining to nuclear safety shall be retained for a period of 5 years where these requirements do not conflict with requirements of 10 CFR 50.49(j), 10 CFR 50.59, and surveillance requirements of these Technical Specifications. The quality assurance, environmental qualification, installation, and service life records of components covered by these requirements shall be retained for the duration of the Operating License.
 - C. Records of Licensee Event Reports.
 - D. Records of installation, environmental qualification, periodic checks, inspections, and calibrations of equipment pertaining to nuclear safety to verify that surveillance requirements are being met will be retained for the duration of the Operating License. All other records of this type will be retained for 5 years.
 - E. Records of new and spent fuel inventory and assembly histories. (5 years following transfer)
- F.* Records of design modifications made to systems and equipment, including drawings, as described in the FSAR.
- G.* Records of plant radiation and contamination surveys.
- H.* Records of off-site environmental surveys.
- I.* Records of radiation exposure of all individuals entering radiation controlled areas of the plant, including records for preparation of NRC-4 forms, bioassay and whole body counting results; and records of

individual exposures exceeding 40-MPC hour limits, including evaluations and actions taken.

- J.* Records of gaseous and liquid radioactive material released to the environment.
- K.* Records of any special reactor tests or experiments.
- L. Records of changes made in the Operating Procedures.
- M. Records of sealed source and fission detector leak tests and results performed pursuant to Specification 15.4.12, including annual physical inventory results verifying accountability of sources.
- N. Records of training, qualification and requalification for NRC licensed personnel shall be retained for 2 years per 10 CFR 55 requirements. Records of fire brigade member training, including drill critiques shall be maintained for 3 years in accordance with 10 CFR 50 Appendix R, Section I.4 requirements.
- 0.* Records of in-service inspections performed pursuant to these technical specifications.
- P.* Records of Quality Assurance activities required by the QA Manual shall be maintained for the duration of the Operating License except those QA records relating to radioactive materials shipping packages, which shall be maintained for the lifetime of the packaging per 10 CFR 71.91(c) requirements.
- Q.* Records of reviews performed for changes made to procedures or equipment, or reviews of tests and experiements pursuant to 10 CFR 50.59 and as required per Specification 15.6.5.1.6.
- R.* Records of meetings of the Manager's Supervisory Staff and the Off-Site Review Committee.
- S.* Records of Analyses for radiological environmental monitoring.
- T. Records of radioactive material shipments having a specific activity of greater than 0.002 microcurie/gram shall be retained for a period of 2 years in accordance with 10 CFR 71.91(a).
- U. Records concerning the Security Plan, procedures, testing, maintenance, and audit shall be maintained in accordance with the Commission-approved PBNP Modified Amended Security Plan.

*Items will be retained for the duration of the Operating License.

15.6.10-2

15.6.12 ENVIRONMENTAL QUALIFICATION

- A. By no later than June 30, 1982 all safety-related electrical equipment in the facility shall be qualified in accordance with the provisions of: Division of Operating Reactors "Guidelines for Evaluating Environmental Qualification of Class 1E Electrical Equipment in Operating Reactors" (DOR Guidelines); or NUREG-0588 "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment", December 1979. Copies of these documents are attached to Order for Modification of Licenses DPR-24 and DPR-27 dated October 24, 1980.
- B. By no later than December 1, 1980, complete and auditable records must be available and maintained at a central location which describe the environmental qualification method used for all safety-related electrical equipment in sufficient detail to document the degree of compliance with the DOP. Guidelines or NUREG-0588. Thereafter, such records should be updated and maintained current as equipment is replaced, further tested, or otherwise further qualified.

15.7.8 ADMINISTRATIVE CONTROLS

15.7.8.1 Duties of the Manager's Supervisory Staff

The duties of the Manager's Supervisory Staff with respect to these radiological effluent technical specifications are listed in specification 15.6.5.1.6 at items j. and k.

- 15.7.8.2 Audits
 - A. An audit of the activities encompassed by the Offsite Dose Calculation Manual and the Process Control Program and its implementing procedures shall be performed at least once every 24 months utilizing either offsite licensee personnel or a consulting firm.
 - B. An audit of the radiological environmental monitoring program and the results thereof shall be performed at least once every 12 months utilizing either offsite licensee personnel or a qualified consulting firm.
 - C. The results of the audits in A and B above shall be transmitted to the Vice-President - Nuclear Power and the Chairman of the Offsite Review Committee.
- 15.7.8.3 Plant Operating Procedures

The ODCM and the PCP shall be established and maintained in accordance with the provisions of specification 15.6.8. Effluent and environmental monitoring shall be addressed in the Quality Assurance Program.

15.7.8.4 RETS Reporting Requirements

The following written reports shall be submitted to the Administrator, U.S. Nuclear Regulatory Commission Region III with a copy to the Director, Office of Inspection and Enforcement, USNRC, Washington, D.C. 20555 within the time periods specified.

A. Semiannual Monitoring Report

A report within 60 days after January 1 and July 1 each year for the six month period or fraction thereof, ending June 30 and December 31 containing:

 Information relative to the quantities of liquid, gaseous and solid radioactive effluents released from the facility, and effluent volumes used in maintaining the releases

16.5 Reporting Requirements

Specification

- As part of the Semiannual Monitoring Report, described in Section 15.7.8.4.A of Appendix A, the following shall be reported:
 - a. All scheduled and unscheduled chemical discharge to the condenser cooling water.
 - b. A description of circulating water system operation for each unit which includes ambient temperature, intake temperature, discharge temperature, and circulating water system flow.