

ENCLOSURE 5

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2  
NRC DOCKET NO. 50-325 AND 50-324  
OPERATING LICENSE NOS. DPR-71 AND DPR -62  
REQUEST FOR LICENSE AMENDMENT  
PERFORMANCE-BASED NUCLEAR ASSESSMENT PROGRAM  
MARKED-UP TECHNICAL SPECIFICATION PAGES - BSEP 1

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6.2.3 -PROJECT ASSESSMENT (PA) Deleted

FUNCTION

6.2.3.1 The PA Group Unit shall function to examine facility operating characteristics, NRC issues, industry advisories, and other sources which may indicate areas for improving facility safety.

RESPONSIBILITIES

6.2.3.2 The PA Group Unit shall be responsible for maintaining surveillance of facility activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical.

AUTHORITY

6.2.3.3 The PA Group Unit shall make detailed recommendations for revised procedures, equipment modifications, or other means of improving facility safety to the Manager - Nuclear Assessment Department.

6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall serve in an advisory capacity to the Shift Supervisor on matters pertaining to the engineering aspects assuring safe operation of the unit.

6.3 FACILITY STAFF QUALIFICATION

6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions<sup>(a)</sup>, except for (1) the Manager - Environmental & Radiation Control who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975 and (2) the Shift Technical Advisor who 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 during transients and accidents.

6.4 TRAINING

6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Manager - Training (BSEP) 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.

\* Not responsible for sign-off function.

(a) The requirement for the Manager - Operations to hold or have held a senior reactor operator license is exempted for a period of 18 months starting from June 13, 1991.

## ADMINISTRATIVE CONTROLS

### PROCEDURES, TESTS, AND EXPERIMENTS

6.5.2.4 The safety evaluation prepared in accordance with Specifications 6.5.2.1.a and 6.5.2.1.b above shall include a written determination, with basis, of whether or not the procedures, proposed tests and experiments, and changes thereto constitute an unreviewed safety question as defined in 10 CFR 50.59, or whether they involve a change to the Technical Specifications.

6.5.2.5 Following the nuclear safety review, the procedures required by Specification 6.8, other procedures that affect nuclear safety, proposed tests or experiments, and changes thereto (other than editorial or typographical) which have been determined to not involve an unreviewed safety question as defined in 10 CFR 50.59 or change to the Technical Specifications shall be approved prior to implementation by the General Manager - Brunswick Plant or his previously designated alternate.

### MODIFICATIONS

6.5.2.6 The safety evaluation prepared in accordance with Specification 6.5.2.1.c above shall include a written determination, with basis, of whether or not the proposed modification is a change in the facility as described in the safety analysis report, involves a change to the Technical Specifications, or constitutes an unreviewed safety question as defined in 10 CFR 50.59.

6.5.2.7 Following the nuclear safety review, proposed modifications which have been determined to not involve an unreviewed safety question as defined in 10 CFR 50.59 or a change to the Technical Specifications shall be approved by the General Manager - Brunswick Plant or his previously designated alternate.

### OPERATING LICENSE/TECHNICAL SPECIFICATIONS

6.5.2.8 The safety evaluation prepared in accordance with Specifications 6.5.2.1.d and 6.5.2.1.e above shall include a written preliminary determination, with basis, of whether or not the proposed Operating License/Technical Specification change(s) is a change in the facility as described in the safety analysis report.

6.5.2.9 Following the nuclear safety review of the safety evaluation prepared in accordance with Specifications 6.5.2.1.d and 6.5.2.1.e above and the associated proposed action, the request shall be:

- a. Reviewed by the Plant Nuclear Safety Committee in accordance with Specification 6.5.3.8.
- b. Reviewed by the Nuclear Assessment <sup>Section</sup> ~~Department Section~~ in accordance with Specification 6.5.4.9.

## ADMINISTRATIVE CONTROLS

### 6.5.3 PLANT NUCLEAR SAFETY COMMITTEE (PNSC)

#### FUNCTION

6.5.3.1 As an effective means for the regular review, overview, evaluation, and maintenance of plant operational safety, a Plant Nuclear Safety Committee (PNSC) shall be established.

6.5.3.2 The PNSC shall function through the utilization of subcommittees, audits, investigations, reports, and/or performance of reviews as a group.

#### COMPOSITION

6.5.3.3 The PNSC shall be composed of the:

Chairman	General Manager - Brunswick Plant*
Member:	Manager - Technical Support
Member:	Manager - Operations
Member:	Manager - Maintenance
Member:	Manager - Environmental & Radiation Control
Member:	Technical Assistant to Plant General Manager
Member:	Manager - QA/QC
Member:	Manager - Regulatory Compliance

#### ALTERNATES

6.5.3.4 All alternate members shall be appointed in writing by the PNSC Chairman to serve on a temporary basis; however, no more than two alternates shall participate as members at any one time.

6.5.3.5 All alternates, shall as a minimum, meet equivalent qualification criteria as specified for professional-technical personnel in Section 4.4 of ANSI N18.1-1971.

#### MEETING FREQUENCY

6.5.3.6 The PNSC shall meet at least once per calendar month and as convened by the PNSC Chairman or his designated alternate.

#### QUORUM

6.5.3.7 The minimum quorum of the PNSC necessary for the performance of the PNSC activities of the Technical Specifications shall consist of the PNSC Chairman or his designated alternate and four members including alternates. No more than two alternates shall be counted toward meeting the minimum quorum requirement.

\* Or designated alternate.

Delete - Replace with attached INSERT

## INSERT TO PAGE 6-8.

### COMPOSITION

- 6.5.3.3 The PNSC shall be composed of a Chairman and seven to nine members. The members shall be from the following functional areas:

Operations  
Maintenance  
Engineering  
Health Physics/Chemistry  
Regulatory Affairs  
Nuclear Assessment

- 6.5.3.4 The PNSC Chairman, alternate Chairmen, members, and alternate members shall be designated in writing by the Director - Site Operations. Members shall be individuals who are unit manager level or above from the site management organization. Alternate members shall, as a minimum, meet equivalent qualification criteria as specified in Section 4.4 of ANSI N18.1-1971 for professional-technical personnel.

### QUORUM

- 6.5.3.5 The quorum of the PNSC necessary for the performance of the activities of these Technical Specifications shall consist of the Chairman (or his designated alternate) and four members (including alternates).
- 6.5.3.6 No more than two alternates shall be counted toward meeting the quorum requirement or participate as voting members of the PNSC at any one time.

### MEETING FREQUENCY

- 6.5.3.7 The PNSC shall meet at least once per calendar month and as convened by the PNSC Chairman or his designated alternate.



ACTIVITIES

6.5.3.8 The PNSC activities shall include the following:

- a. Review of all procedures required by Specification 6.8 and changes thereto (and any other procedures and changes thereto), any of which constitute an unreviewed safety question or involve a change to the Technical Specifications, prior to implementation.
- b. Review of all proposed tests or experiments that constitute an unreviewed safety question or involve a change to the Technical Specifications, prior to implementation.
- c. Review of all proposed modifications that constitute an unreviewed safety question or involve a change to the Technical Specifications, prior to implementation.
- d. Review of all proposed changes to the Technical Specifications or Operating License, prior to implementation.
- e. Review of reports on violations of Technical Specifications including reports covering evaluation and recommendations to prevent recurrence to the Manager - Brunswick Nuclear ~~Project and~~ <sup>Project and</sup> ~~to the Manager - Nuclear Assessment Department.~~ <sup>PLANT</sup>
- f. Performance of special reviews, investigations (or analyses), and reports thereon as requested by the Manager - Nuclear Assessment ~~Department.~~ <sup>Section</sup>
- g. Review of all REPORTABLE EVENTS.
- h. Review of facility operations to detect potential nuclear safety hazards.
- i. Annual review of the Security Plan.
- j. Annual review of the Emergency Plan.
- k. Review of accidental, unplanned, or uncontrolled radioactive release including the preparation of reports covering evaluation, recommendations and disposition of the corrective action to prevent recurrence and the forwarding of these reports to the Manager - Brunswick Nuclear ~~Project and the Manager - Nuclear Assessment Department.~~ <sup>PLANT</sup>
- l. Review of changes to the PROCESS CONTROL PROGRAM and the OFFSITE DOSE CALCULATION MANUAL.
- m. Review of the Fire Protection Program and implementing procedures and the submittal of recommended changes to the Nuclear Assessment ~~Department.~~ <sup>Section</sup>



## ADMINISTRATIVE CONTROLS

### AUTHORITY

6.5.3.9 If there is a disagreement between recommendations of a majority of the PNSC and the actions contemplated by the General Manager - Brunswick Plant, the PNSC shall provide written notification within 24 hours to the ~~Manager - Brunswick Nuclear Project and the Vice President - Nuclear Services.~~ The course determined by the General Manager - Brunswick Plant to be the most conservative shall be followed. *Plant*

*Vice President*  
RECORDS

6.5.3.10 The PNSC shall maintain written minutes of each PNSC meeting that, at a minimum, document the results of all PNSC activities performed under the provisions of these Technical Specifications. Copies shall be provided to the ~~Manager - Brunswick Nuclear Project and the Manager - Nuclear Assessment Department.~~ *Plant*

*Section*

### 6.5.4 NUCLEAR ASSESSMENT DEPARTMENT INDEPENDENT REVIEW PROGRAM

### FUNCTION

*Section*  
6.5.4.1 The Nuclear Assessment ~~Department~~ shall function to provide independent review of significant plant changes, tests, and procedures; verify that REPORTABLE EVENTS are investigated in a timely manner and corrected in a manner that reduces the probability of recurrence of such events; and detect trends that may not be apparent to a day-to-day observer.

### ORGANIZATION

*qualified in specific*  
6.5.4.2 The individuals assigned responsibility for independent reviews shall be ~~specified in technical~~ disciplines. These individuals shall collectively have the experience and competence required to review activities in the following areas:

- a. nuclear power plant operations
- b. nuclear engineering
- c. chemistry and radiochemistry
- d. metallurgy
- e. non-destructive testing
- f. instrumentation and control
- g. radiological safety
- h. mechanical and electrical engineering
- i. administrative controls

ORGANIZATION (Continued)

- j. seismic and environmental
- k. quality assurance practices
- l. Other appropriate fields ~~associated with the unique characteristics of the nuclear power plant.~~

6.5.4.3 The Manager - Nuclear Assessment <sup>Section</sup> ~~Department~~ shall have an <sup>bachelors</sup> ~~academic~~ degree in an engineering or related field and, in addition, shall have a minimum of ten years related experience, of which a minimum of five years shall be in the operation and/or design of nuclear power plants.

<sup>bachelors</sup> 6.5.4.4 The independent safety review program reviewers shall have an ~~academic~~ degree in an engineering or related field or equivalent and, in addition, shall have a minimum of five years related experience.

6.5.4.5 An individual may possess competence in more than one specialty area. If sufficient expertise is not available within the Nuclear Assessment <sup>Section</sup> ~~Department~~, competent individuals from other Carolina Power & Light Company organizations or outside consultants shall be utilized in performing independent reviews and investigations.

<sup>Replace with 6.5.4.6 attached</sup>  
~~6.5.4.6 At least three individuals, qualified as discussed in 6.5.4.4 above, shall review each item submitted under the requirements of Section 6.5.4.9.~~

6.5.4.7 Independent safety reviews shall be performed by individuals not directly involved with the activity under review or responsible for the activity under review.

<sup>Section</sup> 6.5.4.8 The Nuclear Assessment ~~Department~~ independent safety review program shall be conducted in accordance with written, approved procedures.

REVIEW

<sup>Replace with New 6.5.4.9-12 (attached)</sup>

6.5.4.9 The Nuclear Assessment Department shall perform reviews of the following:

- a. The safety evaluations for 1) changes to procedures required by Specification 6.8, 2) modifications of equipment or systems, and 3) tests or experiments that constitute a change to the safety analysis report to verify that such actions did not constitute an unreviewed safety question or involve a change to the Technical Specifications. Implementation may proceed prior to completion of this review.
- b. Proposed changes to procedures required by Specification 6.8, and proposed modifications that constitute an unreviewed safety question as defined in 10 CFR 50.29 or a change to the Technical Specifications, prior to implementation.

**INSERT TO PAGE 6-11.**

- 6.5.4.6 The documents submitted under 6.5.4.9 shall be reviewed by individuals meeting the requirements of 6.5.4.2 and 6.5.4.4 to ensure applicable disciplines are encompassed. Multiple reviews will be conducted on documents where required to meet applicable disciplines of 6.5.4.2.

REVIEW (Continued) *Replace with 6.5.4.9-12 attached*

- c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59 or a change to the Technical Specifications, prior to implementation.
- d. Proposed changes to the Technical Specifications and Operating License.
- e. Violations of applicable codes, regulations, orders, Technical Specifications, license requirements, and internal procedures or instructions having nuclear safety significance.
- f. Significant operating abnormalities or deviations from normal and expected performance of plant safety-related structures, systems, or components.
- g. Reportable events.
- h. Reports and minutes of the PNSC.
- i. Any other matter involving safe operation of the nuclear power plant that the Manager - Nuclear Assessment Department deems appropriate for consideration or which is referred to the Manager - Nuclear Assessment Department by the on-site operating organization or other functional organizational units within Carolina Power & Light Company.

6.5.4.10 Review of items considered under 6.5.4.9(e) through (i) above shall include the results of any investigations made and the recommendations resulting from these investigations to prevent or reduce the probability of recurrence of the event.

RECORDS

6.5.4.11 Records of Nuclear Assessment Department reviews, including recommendations and concerns, shall be prepared and distributed as indicated below:

- a. Copies of documented reviews shall be retained in the Nuclear Assessment Department files.
- b. Recommendations and concerns shall be submitted to the General Manager - Brunswick Plant and Manager - Brunswick Nuclear Project, within 14 days of completion of the review.
- c. A summation of Nuclear Assessment Department's recommendations and concerns shall be submitted to the Chairman/President; Executive Vice President - Power Supply; Senior Vice President - Nuclear Generation; Vice President - Nuclear Services; Manager - Brunswick Nuclear Project; General Manager - Brunswick Plant; and others, appropriate, at least once every two months.

**INSERT TO PAGES 6-11 AND 6-12.**

6.5.4.9

REVIEW

The Nuclear Assessment Section shall perform reviews of the following:

- a. Written safety evaluations of changes in the facility as described in the Safety Analysis Report, changes in procedures as described in the Safety Analysis Report, and tests or experiments not described in the Safety Analysis Report which are completed without prior NRC approval under the provisions of 10 CFR 50.59(a)(1). These reviews are to verify that such changes, tests, or experiments do not involve a change in the Technical Specifications or an unreviewed safety question as defined in 10 CFR 50.59(a)(2). These reviews may be conducted after appropriate management approval, and implementation may proceed prior to completion of the review.
- b. Proposed changes in procedures required by these Technical Specifications, proposed changes in the facility, or proposed tests or experiments, any of which involve a change in the Technical Specifications or an unreviewed safety question pursuant to 10 CFR 50.59(a)(2) prior to implementation.
- c. Proposed changes to the Technical Specifications or this Operating License prior to implementation.
- d. Violations, deviations and reportable events, which require reporting to the NRC in writing, such as:
  1. violations of applicable codes, regulations, orders, technical specifications, license requirements or internal procedures or instructions having safety significance.
  2. significant operating abnormalities or deviations from normal or expected performance of plant safety-related structures, systems, or components, and
  3. REPORTABLE EVENTS as specified in 10 CFR 50.73.
- e. Any other matter involving safe operation of the nuclear power plant that the Manager - Nuclear Assessment Section, deems appropriate for consideration or which is referred to the Manager - Nuclear Assessment Section, by the on-site operating organization, Plant Nuclear Safety Committee (PNSC) or by other functional organizational units within CP&L.

**INSERT TO PAGES 6-11 AND 6-12.**

RECORDS

6.5.4.10 Results of Nuclear Assessment Section independent safety reviews shall be documented and retained.

Section Assessment

6.5.5 NUCLEAR ASSESSMENT DEPARTMENT AUDIT PROGRAM

FUNCTION Replace entire Section 6.5.5 with attached

6.5.5.1 The Nuclear Assessment Department shall function to perform audits of facility activities specified in Specification 6.5.5.2.

AUDITS

6.5.5.2 Audits of facility activities shall be performed by the Nuclear Assessment Department. These audits shall encompass:

- a. The conformance of facility operation to provisions contained within the Technical Specifications and applicable license conditions at least once per 12 months.
- b. The training and qualifications of the entire facility staff at least once per 12 months.
- c. The results of actions taken to correct deficiencies occurring in facility equipment, structures, systems, or methods of operation that affect nuclear safety at least once per 6 months.
- d. The verification of compliance and implementation of the requirements of the Quality Assurance Program to meet the criteria of Appendix "B", 10 CFR 50, at least once per 24 months.
- e. The Emergency Plan and implementing procedures at least once per 12 months.
- f. The Security Plan and implementing procedures at least once per 12 months.
- g. The Facility Fire Protection Program and implementing procedures at least once per 12 months.
- h. The radiological environmental monitoring program and the results thereof at least once per 12 months.
- i. The OFFSITE DOSE CALCULATIONAL MANUAL and implementing procedures at least once per 24 months.
- j. The PROCESS CONTROL PROGRAM and implementing procedures for processing and packaging of radioactive wastes at least once per 24 months.



**INSERT TO PAGE 6-13.**

**6.5.5 Nuclear Assessment Section Assessment Program**

**6.5.5.1** Assessments of facility activities shall be performed by the Nuclear Assessment Section. Assessments will be performance based and will be scheduled based on plant performance and importance to safety but at a frequency not to exceed 24 months. These assessments shall encompass:

- a. The conformance of facility operation to provisions contained within the Technical Specifications and applicable license conditions.
- b. The performance, training and qualifications of the entire facility staff.
- c. The results of actions taken to correct deficiencies occurring in facility equipment, structures, systems or method of operation that affect nuclear safety.
- d. The performance of activities required by the Quality Assurance Program to meet the criteria of Appendix B, 10 CFR 50.
- e. Any other area of facility operation considered appropriate by the Vice President - Brunswick Nuclear Plant.
- f. The Fire Protection Program and implementing procedures.
- g. The Radiological Environmental Monitoring Program and the results thereof.
- h. The OFFSITE DOSE CALCULATION MANUAL and implementing procedures.
- i. The PROCESS CONTROL PROGRAM and implementing procedures for processing and packaging of radioactive wastes.

**6.5.5.2** Assessments of activities prescribed by the Code of Federal Regulations will be performed at the frequencies prescribed by the applicable regulation. These assessments shall encompass:

- a. Emergency Preparedness (per 10 CFR 50.54(t))
- b. Security (per 10 CFR 50.54(p))

AUDITS (Continued) Replace entire section 6.5.5 with attached

- a. The performance of activities required by the Quality Assurance Program to meet the provisions of Regulatory Guide 1.21, Revision 1, June 1974, and Regulatory Guide 4.1, Revision 1, April 1975, at least once per 12 months.

1. Any other area of facility operation considered appropriate by the Manager - Nuclear Assessment Department.

6.5.5.3 Personnel performing the audits shall have access to the plant operating records.

RECORDS

6.5.5.4 Records of audits shall be prepared and retained.

6.5.5.5 Audit reports encompassed by 6.5.5.2 above shall be prepared, approved by the Manager - Nuclear Assessment Department, and forwarded to the Executive Vice President - Power Supply; Senior Vice President - Nuclear Generation; Manager - Brunswick Nuclear Project; General Manager - Brunswick Plant; and others, as appropriate, within 30 days after completion of the audit.

AUTHORITY

6.5.5.6 The Manager - Nuclear Assessment Department shall be responsible for the following:

- a. The administering of the Nuclear Assessment Department Audit Program.
- b. The approval of the individual(s) selected to conduct audits.

PERSONNEL

6.5.5.7 Audit personnel shall be independent of the area audited.

6.5.5.8 Selection of personnel for auditing assignments shall be based on experience or training that establishes that their qualifications are commensurate with the complexity or special nature of the activities to be audited. In selecting audit personnel, consideration shall be given to special abilities, specialized technical training, prior pertinent experience, personal characteristics, and education.

6.5.5.9 Qualified outside consultants or other individuals independent from those personnel directly involved in plant operation shall be used to augment the audit teams when necessary.

## ADMINISTRATIVE CONTROLS

### 6.5.6 OUTSIDE AGENCY INSPECTION AND AUDIT PROGRAM

~~6.5.6.1 An independent fire protection and loss prevention inspection and audit shall be performed at least once per 12 months utilizing either qualified offsite licensee personnel or an outside fire protection firm.~~

~~6.5.6.2 An inspection and audit of the fire protection and loss prevention program shall be performed by an outside qualified fire consultant at intervals no greater than 36 months.~~

### 6.6 REPORTABLE EVENT ACTION

6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the Plant Nuclear Safety Committee - Brunswick Plant and shall be submitted to the Manager - Nuclear Assessment ~~Department~~ and the ~~Manager~~ - Brunswick Nuclear Project.  
Plant                      Section                      Vice-President

### 6.7 SAFETY LIMIT VIOLATION

6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The facility shall be placed in at least HOT SHUTDOWN within two hours.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within one hour. The ~~Manager~~ - Brunswick Nuclear Project and the ~~Manager~~ - Nuclear Assessment Department shall be notified within 24 hours.  
Plant                      Vice-President
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the ~~General Manager~~ - Brunswick Plant. This report shall describe (1) applicable circumstances preceding the violation, (2) effects of the violation upon facility components, systems, or structures, and (3) corrective action taken to prevent recurrence.  
Plant                      Vice-President
- d. The Safety Limit Violation Report shall be submitted to the Commission, the ~~Manager~~ - Brunswick Nuclear Project, and the Manager - Nuclear Assessment ~~Department~~ within 14 days of the violation.  
Section                      Plant

## ADMINISTRATIVE CONTROLS

### RECORDS RETENTION (Continued)

- k. Records of reviews performed for changes made to procedures or equipment or reviews of tests and experiments pursuant to 10 CFR 50.59.
- l. Records of the service lives of all hydraulic and mechanical snubbers referenced in Section 3.7.5 including the data at which the service life commences and associated installation and maintenance records.
- m. Records of analyses required by the radiological environmental monitoring program.
- n. Records of ~~(1) meetings of the PNSC, (2) meetings of the previous off-site review organization, the Company Nuclear Safety Committee (CNSC), (3) the independent reviews performed by the Nuclear Assessment Department, and (4) the independent reviews performed by the Corporate Quality Assurance Audit Program, Quality Assurance Auditing Unit.~~

#### O. Records of Independent Review

##### 6.11 RADIATION PROTECTION PROGRAM

6.11.1 Procedures for personnel radiation protection shall be prepared consistent with the requirements of 10 CFR Part 20 and shall be approved, maintained and adhered to for all operations involving personnel radiation exposure.

##### 6.12 HIGH RADIATION AREA

6.12.1 In lieu of the "Control Device" or "alarm signal" required by paragraph 20.203(c)(2) of 10 CFR 20, each high radiation area in which the intensity of radiation is 1000 mrem/hr or less shall be barricaded and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit (RWP)\*. Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or more of the following:

- a. A radiation monitoring device which continuously indicates the radiation dose rate in the area.
- b. A radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate levels in the area have been established and personnel have been made knowledgeable of them.

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\* Health Physics personnel or personnel escorted by Health Physics personnel shall be exempt from the RWP issuance requirement during the performance of their assigned radiation protection duties, provided they comply with approved radiation protection procedures for entry into high radiation areas.

ENCLOSURE 6

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## ADMINISTRATIVE CONTROLS

### 6.2.3 PROJECT ASSESSMENT (PA) Deleted

#### FUNCTION

6.2.3.1 The PA Group Unit shall function to examine facility operating characteristics, NRC issues, industry advisories, and other sources which may indicate areas for improving facility safety.

#### RESPONSIBILITIES

6.2.3.2 The PA Group Unit shall be responsible for maintaining surveillance of facility activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical.

#### AUTHORITY

6.2.3.3 The PA Group Unit shall make detailed recommendations for revised procedures, equipment modifications, or other means of improving facility safety to the Manager - Nuclear Assessment Department.

### 6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall serve in an advisory capacity to the Shift Supervisor on matters pertaining to the engineering aspects assuring safe operation of the unit.

### 6.3 FACILITY STAFF QUALIFICATION

6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions<sup>(a)</sup>, except for (1) the Manager - Environmental & Radiation Control who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975 and (2) the Shift Technical Advisor who 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 during transients and accidents.

### 6.4 TRAINING

6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Manager - Training (BSEP) 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.

\* Not responsible for sign-off function.

(a) The requirement for the Manager - Operations to hold or have held a senior reactor operator license is exempted for a period of 18 months starting from June 13, 1991.

## ADMINISTRATIVE CONTROLS

### PROCEDURES, TESTS, AND EXPERIMENTS

6.5.2.4 The safety evaluation prepared in accordance with Specifications 6.5.2.1.a and 6.5.2.1.b above shall include a written determination, with basis, of whether or not the procedures, proposed tests and experiments, and changes thereto constitute an unreviewed safety question as defined in 10 CFR 50.59, or whether they involve a change to the Technical Specifications.

6.5.2.5 Following the nuclear safety review, the procedures required by Specification 6.8, other procedures that affect nuclear safety, proposed tests or experiments, and changes thereto (other than editorial or typographical) which have been determined to not involve an unreviewed safety question as defined in 10 CFR 50.59 or change to the Technical Specifications shall be approved prior to implementation by the General Manager - Brunswick Plant or his previously designated alternate.

### MODIFICATIONS

6.5.2.6 The safety evaluation prepared in accordance with Specification 6.5.2.1.c above shall include a written determination, with basis, of whether or not the proposed modification is a change in the facility as described in the safety analysis report, involves a change to the Technical Specifications, or constitutes an unreviewed safety question as defined in 10 CFR 50.59.

6.5.2.7 Following the nuclear safety review, proposed modifications which have been determined to not involve an unreviewed safety question as defined in 10 CFR 50.59 or a change to the Technical Specifications shall be approved by the General Manager - Brunswick Plant or his previously designated alternate.

### OPERATING LICENSE/TECHNICAL SPECIFICATIONS

6.5.2.8 The safety evaluation prepared in accordance with Specifications 6.5.2.1.d and 6.5.2.1.e above shall include a written preliminary determination, with basis, of whether or not the proposed Operating License/Technical Specification change(s) is a change in the facility as described in the safety analysis report.

6.5.2.9 Following the nuclear safety review of the safety evaluation prepared in accordance with Specifications 6.5.2.1.d and 6.5.2.1.e above and the associated proposed action, the request shall be:

- a. Reviewed by the Plant Nuclear Safety Committee in accordance with Specification 6.5.3.8.
- b. Reviewed by the Nuclear Assessment <sup>Section</sup> ~~Department Section~~ in accordance with Specification 6.5.4.9.

## ADMINISTRATIVE CONTROLS

### 6.5.3 PLANT NUCLEAR SAFETY COMMITTEE (PNSC)

#### FUNCTION

6.5.3.1 As an effective means for the regular review, overview, evaluation, and maintenance of plant operational safety, a Plant Nuclear Safety Committee (PNSC) shall be established.

6.5.3.2 The PNSC shall function through the utilization of subcommittees, audits, investigations, reports, and/or performance of reviews as a group.

#### COMPOSITION

6.5.3.3 The PNSC shall be composed of the:

Chairman:	General Manager - Brunswick Plant*
Member:	Manager - Technical Support
Member:	Manager - Operations
Member:	Manager - Maintenance
Member:	Manager - Environmental & Radiation Control
Member:	Technical Assistant to Plant General Manager
Member:	Manager - QA/QC
Member:	Manager - Regulatory Compliance

#### ALTERNATES

6.5.3.4 All alternate members shall be appointed in writing by the PNSC Chairman to serve on a temporary basis; however, no more than two alternates shall participate as members at any one time.

6.5.3.5 All alternates, shall as a minimum, meet equivalent qualification criteria as specified for professional-technical personnel in Section 4.4 of ANSI N18.1-1971.

#### MEETING FREQUENCY

6.5.3.6 The PNSC shall meet at least once per calendar month and as convened by the PNSC Chairman or his designated alternate.

#### QUORUM

6.5.3.7 The minimum quorum of the PNSC necessary for the performance of the PNSC activities of the Technical Specifications shall consist of the PNSC Chairman or his designated alternate and four members including alternates. No more than two alternates shall be counted toward meeting the minimum quorum requirement.

\* Or designated alternate.

Delete - Replace with attached Insert

## INSERT TO PAGE 6-8.

### COMPOSITION

- 6.5.3.3 The PNSC shall be composed of a Chairman and seven to nine members. The members shall be from the following functional areas:

Operations  
Maintenance  
Engineering  
Health Physics/Chemistry  
Regulatory Affairs  
Nuclear Assessment

- 6.5.3.4 The PNSC Chairman, alternate Chairmen, members, and alternate members shall be designated in writing by the Director - Site Operations. Members shall be individuals who are unit manager level or above from the site management organization. Alternate members shall, as a minimum, meet equivalent qualification criteria as specified in Section 4.4 of ANSI N18.1-1971 for professional-technical personnel.

### QUORUM

- 6.5.3.5 The quorum of the PNSC necessary for the performance of the activities of these Technical Specifications shall consist of the Chairman (or his designated alternate) and four members (including alternates).
- 6.5.3.6 No more than two alternates shall be counted toward meeting the quorum requirement or participate as voting members of the PNSC at any one time.

### MEETING FREQUENCY

- 6.5.3.7 The PNSC shall meet at least once per calendar month and as convened by the PNSC Chairman or his designated alternate.

ACTIVITIES

6.5.3.8 The PNSC activities shall include the following:

- a. Review of all procedures required by Specification 6.8 and changes thereto (and any other procedures and changes thereto), any of which constitute an unreviewed safety question or involve a change to the Technical Specifications, prior to implementation.
- b. Review of all proposed tests or experiments that constitute an unreviewed safety question or involve a change to the Technical Specifications, prior to implementation.
- c. Review of all proposed modifications that constitute an unreviewed safety question or involve a change to the Technical Specifications, prior to implementation.
- d. Review of all proposed changes to the Technical Specifications or Operating License, prior to implementation.
- e. Review of reports on violations of Technical Specifications including reports covering evaluation and recommendations to prevent recurrence to the Manager - Brunswick Nuclear Project and to the Manager - Nuclear Assessment Department. ~~Plant~~
- f. Performance of special reviews, investigations (or analyses), and reports thereon as requested by the Manager - Nuclear Assessment Department. ~~Section~~
- g. Review of all REPORTABLE EVENTS.
- h. Review of facility operations to detect potential nuclear safety hazards.
- i. Annual review of the Security Plan.
- j. Annual review of the Emergency Plan.
- k. Review of accidental, unplanned, or uncontrolled radioactive release including the preparation of reports covering evaluation, recommendations and disposition of the corrective action to prevent recurrence and the forwarding of these reports to the Manager - Brunswick Nuclear Project and the Manager - Nuclear Assessment Department. ~~Plant~~
- l. Review of changes to the PROCESS CONTROL PROGRAM and the OFFSITE DOSE CALCULATION MANUAL.
- m. Review of the Fire Protection Program and implementing procedures and the submittal of recommended changes to the Nuclear Assessment Department. ~~Section~~

## ADMINISTRATIVE CONTROLS

### AUTHORITY

6.5.3.9 If there is a disagreement between recommendations of a majority of the PNSC and the actions contemplated by the General Manager - Brunswick Plant, the PNSC shall provide written notification within 24 hours to the ~~Manager - Brunswick Nuclear Project and the Vice President - Nuclear Services~~. The course determined by the General Manager - Brunswick Plant to be the most conservative shall be followed. *Plant*

*Vice-President*  
RECORDS

6.5.3.10 The PNSC shall maintain written minutes of each PNSC meeting that, at a minimum, document the results of all PNSC activities performed under the provisions of these Technical Specifications. Copies shall be provided to the ~~Manager - Brunswick Nuclear Project and the Manager - Nuclear Assessment Department~~. *Plant*

*Section*  
6.5.4 NUCLEAR ASSESSMENT ~~DEPARTMENT~~ INDEPENDENT REVIEW PROGRAM

### FUNCTION

6.5.4.1 The Nuclear Assessment ~~Department~~ *Section* shall function to provide independent review of significant plant changes, tests, and procedures; verify that REPORTABLE EVENTS are investigated in a timely manner and corrected in a manner that reduces the probability of recurrence of such events; and detect trends that may not be apparent to a day-to-day observer.

### ORGANIZATION

6.5.4.2 The individuals assigned responsibility for independent reviews shall be ~~specified in technical~~ *qualified in specific* disciplines. These individuals shall collectively have the experience and competence required to review activities in the following areas:

- a. nuclear power plant operations
- b. nuclear engineering
- c. chemistry and radiochemistry
- d. metallurgy
- e. non-destructive testing
- f. instrumentation and control
- g. radiological safety
- h. mechanical and electrical engineering
- i. administrative controls



## ADMINISTRATIVE CONTROLS

### ORGANIZATION (Continued)

- j. seismic and environmental
- k. quality assurance practices
- l. Other appropriate fields ~~associated with the unique characteristics of the nuclear power plant.~~

6.5.4.3 The Manager - Nuclear Assessment <sup>Section</sup> ~~Department~~ shall have <sup>bachelors</sup> ~~an academic~~ degree in an engineering or related field and, in addition, shall have a minimum of ten years related experience, of which a minimum of five years shall be in the operation and/or design of nuclear power plants.

<sup>bachelors</sup> 6.5.4.4 The independent safety review program reviewers shall have <sup>an</sup> ~~an academic~~ degree in an engineering or related field or equivalent and, in addition, shall have a minimum of five years related experience.

6.5.4.5 An individual may possess competence in more than one specialty area. If sufficient expertise is not available within the Nuclear Assessment ~~Department~~, competent individuals from other Carolina Power & Light Company organizations or outside consultants shall be utilized in performing independent reviews and investigations.

<sup>Section</sup> 6.5.4.6 ~~At least three individuals, qualified as discussed in 6.5.4.4 above shall review each item submitted under the requirements of Section 6.5.4.9.~~ <sup>Replace with New 6.5.4.6 attached</sup>

6.5.4.7 Independent safety reviews shall be performed by individuals not directly involved with the activity under review or responsible for the activity under review.

<sup>Section</sup> 6.5.4.8 The Nuclear Assessment ~~Department~~ independent safety review program shall be conducted in accordance with written, approved procedures.

### REVIEW

<sup>Replace with New 6.5.4.9-12 attached</sup>

6.5.4.9 The Nuclear Assessment ~~Department~~ shall perform reviews of the following:

- a. The safety evaluations for 1) changes to procedures required by Specification 6.8, 2) modifications of equipment or systems, and 3) tests or experiments that constitute a change to the safety analysis report to verify that such actions did not constitute an unreviewed safety question or involve a change to the Technical Specifications. Implementation may proceed prior to completion of this review.
- b. Proposed changes to procedures required by Specification 6.8, and proposed modifications that constitute an unreviewed safety question as defined in 10 CFR 50.59 or a change to the Technical Specifications, prior to implementation.



**INSERT TO PAGE 6-11.**

- 6.5.4.6 The documents submitted under 6.5.4.9 shall be reviewed by individuals meeting the requirements of 6.5.4.2 and 6.5.4.4 to ensure applicable disciplines are encompassed. Multiple reviews will be conducted on documents where required to meet applicable disciplines of 6.5.4.2.

REVIEW (Continued) *Replace with 6.5.4.9 - 12 attached*

- c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59 or a change to the Technical Specifications, prior to implementation.
- d. Proposed changes to the Technical Specifications and Operating License.
- e. Violations of applicable codes, regulations, orders, Technical Specifications, license requirements, and internal procedures or instructions having nuclear safety significance.
- f. Significant operating abnormalities or deviations from normal and expected performance of plant safety-related structures, systems, or components.
- g. Reportable events.
- h. Reports and minutes of the PNSC.
- i. Any other matter involving safe operation of the nuclear power plant that the Manager - Nuclear Assessment Department deems appropriate for consideration or which is referred to the Manager - Nuclear Assessment Department by the on-site operating organization or other functional organizational units within Carolina Power & Light Company.

6.5.4.10 Review of items considered under 6.5.4.9(e) through (i) above shall include the results of any investigations made and the recommendations resulting from these investigations to prevent or reduce the probability of recurrence of the event.

RECORDS

6.5.4.11 Records of Nuclear Assessment Department reviews, including recommendations and concerns, shall be prepared and distributed as indicated below:

- a. Copies of documented reviews shall be retained in the Nuclear Assessment Department files.
- b. Recommendations and concerns shall be submitted to the General Manager - Brunswick Plant and Manager - Brunswick Nuclear Project, within 14 days of completion of the review.
- c. A summation of Nuclear Assessment Department's recommendations and concerns shall be submitted to the Chairman/President; Executive Vice President - Power Supply; Senior Vice President - Nuclear Generation; Vice President - Nuclear Services; Manager - Brunswick Nuclear Project; General Manager - Brunswick Plant; and others, appropriate, at least once every two months.

## INSERT TO PAGES 6-11 AND 6-12.

### 6.5.4.9

### REVIEW

The Nuclear Assessment Section shall perform reviews of the following:

- a. Written safety evaluations of changes in the facility as described in the Safety Analysis Report, changes in procedures as described in the Safety Analysis Report, and tests or experiments not described in the Safety Analysis Report which are completed without prior NRC approval under the provisions of 10 CFR 50.59(a)(1). These reviews are to verify that such changes, tests, or experiments do not involve a change in the Technical Specifications or an unreviewed safety question as defined in 10 CFR 50.59(a)(2). These reviews may be conducted after appropriate management approval, and implementation may proceed prior to completion of the review.
- b. Proposed changes in procedures required by these Technical Specifications, proposed changes in the facility, or proposed tests or experiments, any of which involve a change in the Technical Specifications or an unreviewed safety question pursuant to 10 CFR 50.59(a)(2) prior to implementation.
- c. Proposed changes to the Technical Specifications or this Operating License prior to implementation.
- d. Violations, deviations and reportable events, which require reporting to the NRC in writing, such as:
  1. violations of applicable codes, regulations, orders, technical specifications, license requirements or internal procedures or instructions having safety significance.
  2. significant operating abnormalities or deviations from normal or expected performance of plant safety-related structures, systems, or components, and
  3. REPORTABLE EVENTS as specified in 10 CFR 50.73.
- e. Any other matter involving safe operation of the nuclear power plant that the Manager - Nuclear Assessment Section, deems appropriate for consideration or which is referred to the Manager - Nuclear Assessment Section, by the on-site operating organization, Plant Nuclear Safety Committee (PNSC) or by other functional organizational units within CP&L.

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RECORDS

6.5.4.10 Results of Nuclear Assessment Section independent safety reviews shall be documented and retained.

Section Assessment

6.5.5 NUCLEAR ASSESSMENT DEPARTMENT AUDIT PROGRAM

FUNCTION

Replace entire Section 6.5.5 with attached

6.5.5.1 The Nuclear Assessment Department shall function to perform audits of facility activities specified in Specification 6.5.5.2.

AUDITS

6.5.5.2 Audits of facility activities shall be performed by the Nuclear Assessment Department. These audits shall encompass:

- a. The conformance of facility operation to provisions contained within the Technical Specifications and applicable license conditions at least once per 12 months.
- b. The training and qualifications of the entire facility staff at least once per 12 months.
- c. The results of actions taken to correct deficiencies occurring in facility equipment, structures, systems, or methods of operation that affect nuclear safety at least once per 6 months.
- d. The verification of compliance and implementation of the requirements of the Quality Assurance Program to meet the criteria of Appendix "B", 10 CFR 50, at least once per 24 months.
- e. The Emergency Plan and implementing procedures at least once per 12 months.
- f. The Security Plan and implementing procedures at least once per 12 months.
- g. The Facility Fire Protection Program and implementing procedures at least once per 12 months.
- h. The radiological environmental monitoring program and the results thereof at least once per 12 months.
- i. The OFFSITE DOSE CALCULATIONAL MANUAL and implementing procedures at least once per 24 months.
- j. The PROCESS CONTROL PROGRAM and implementing procedures for processing and packaging of radioactive wastes at least once per 24 months.

**INSERT TO PAGE 6-13.**

6.5.5 Nuclear Assessment Section Assessment Program

6.5.5.1 Assessments of facility activities shall be performed by the Nuclear Assessment Section. Assessments will be performance based and will be scheduled based on plant performance and importance to safety but at a frequency not to exceed 24 months. These assessments shall encompass:

- a. The conformance of facility operation to provisions contained within the Technical Specifications and applicable license conditions.
- b. The performance, training and qualifications of the entire facility staff.
- c. The results of actions taken to correct deficiencies occurring in facility equipment, structures, systems or method of operation that affect nuclear safety.
- d. The performance of activities required by the Quality Assurance Program to meet the criteria of Appendix B, 10 CFR 50.
- e. Any other area of facility operation considered appropriate by the Vice President - Brunswick Nuclear Plant.
- f. The Fire Protection Program and implementing procedures.
- g. The Radiological Environmental Monitoring Program and the results thereof.
- h. The OFFSITE DOSE CALCULATION MANUAL and implementing procedures.
- i. The PROCESS CONTROL PROGRAM and implementing procedures for processing and packaging of radioactive wastes.

6.5.5.2 Assessments of activities prescribed by the Code of Federal Regulations will be performed at the frequencies prescribed by the applicable regulation. These assessments shall encompass:

- a. Emergency Preparedness (per 10 CFR 50.54(t))
- b. Security (per 10 CFR 50.54(p))

AUDITS (Continued) Replace entire Section 6.5.5 with attached

- k. The performance of activities required by the Quality Assurance Program to meet the provisions of Regulatory Guide 1.21, Revision 1, June 1974, and Regulatory Guide 4.1, Revision 1, April 1975, at least once per 12 months.

1. Any other area of facility operation considered appropriate by the Manager - Nuclear Assessment Department.

6.5.5.3 Personnel performing the audits shall have access to the plant operating records.

RECORDS

6.5.5.4 Records of audits shall be prepared and retained.

6.5.5.5 Audit reports encompassed by 6.5.5.2 above shall be prepared, approved by the Manager - Nuclear Assessment Department, and forwarded to the Executive Vice President - Power Supply; Senior Vice President - Nuclear Generation; Manager - Brunswick Nuclear Project; General Manager - Brunswick Plant; and others, as appropriate, within 30 days after completion of the audit.

AUTHORITY

6.5.5.6 The Manager - Nuclear Assessment Department shall be responsible for the following:

- a. The administering of the Nuclear Assessment Department Audit Program.
- b. The approval of the individual(s) selected to conduct audits.

PERSONNEL

6.5.5.7 Audit personnel shall be independent of the area audited.

6.5.5.8 Selection of personnel for auditing assignments shall be based on experience or training that establishes that their qualifications are commensurate with the complexity or special nature of the activities to be audited. In selecting audit personnel, consideration shall be given to special abilities, specialized technical training, prior pertinent experience, personal characteristics, and education.

6.5.5.9 Qualified outside consultants or other individuals independent from those personnel directly involved in plant operation shall be used to augment the audit teams when necessary.



## ADMINISTRATIVE CONTROLS

### 6.5.6 OUTSIDE AGENCY INSPECTION AND AUDIT PROGRAM

6.5.6.1 An independent fire protection and loss prevention inspection and audit shall be performed at least once per 12 months utilizing either qualified offsite licensee personnel or an outside fire protection firm.

6.5.6.2 An inspection and audit of the fire protection and loss prevention program shall be performed by an outside qualified fire consultant at intervals no greater than 36 months.

### 6.6 REPORTABLE EVENT ACTION

6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the Plant Nuclear Safety Committee - Brunswick Plant and shall be submitted to the Manager - Nuclear Assessment Department and the Manager - Brunswick Nuclear Project.  
Plant Section

### 6.7 SAFETY LIMIT VIOLATION

6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The facility shall be placed in at least HOT SHUTDOWN within two hours.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within one hour. The <sup>(Vice-President)</sup> Manager - Brunswick Nuclear Project and the Manager - Nuclear Assessment Department shall be notified within 24 hours.  
Plant
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the General Manager - Brunswick Plant. This report shall describe (1) applicable circumstances preceding the violation, (2) effects of the violation upon facility components, systems, or structures, and (3) corrective action taken to prevent recurrence.
- d. The Safety Limit Violation Report shall be submitted to the Commission, the Manager - Brunswick Nuclear Project, and the Manager - Nuclear Assessment Department within 14 days of the violation.  
Vice-President Section Plant

## ADMINISTRATIVE CONTROLS

### RECORDS RETENTION (Continued)

- k. Records of reviews performed for changes made to procedures or equipment or reviews of tests and experiments pursuant to 10 CFR 50.59.
- l. Records of the service lives of all hydraulic and mechanical snubbers referenced in Section 3.7.5 including the data at which the service life commences and associated installation and maintenance records.
- m. Records of analyses required by the radiological environmental monitoring program.
- n. Records of ~~(1) meetings of the PNSC, (2) meetings of the previous off-site review organization, the Company Nuclear Safety Committee (CNSC), (3) the independent reviews performed by the Nuclear Assessment Department, and (4) the independent reviews performed by the Corporate Quality Assurance Audit Program, Quality Assurance Auditing Unit.~~

### O. Records of Independent Review

#### 6.11 RADIATION PROTECTION PROGRAM

6.11.1 Procedures for personnel radiation protection shall be prepared consistent with the requirements of 10 CFR Part 20 and shall be approved, maintained and adhered to for all operations involving personnel radiation exposure.

#### 6.12 HIGH RADIATION AREA

6.12.1 In lieu of the "Control Device" or "alarm signal" required by paragraph 20.203(c)(2) of 10 CFR 20, each high radiation area in which the intensity of radiation is 1000 mrem/hr or less shall be barricaded and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit (RWP)\*. Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or more of the following:

- a. A radiation monitoring device which continuously indicates the radiation dose rate in the area.
- b. A radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate levels in the area have been established and personnel have been made knowledgeable of them.

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\* Health Physics personnel or personnel escorted by Health Physics personnel shall be exempt from the RWP issuance requirement during the performance of their assigned radiation protection duties, provided they comply with approved radiation protection procedures for entry into high radiation areas.