Technical Specifications

Humboldt Bay Power Plant Unit 3

Eureka, California

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1.0 USE AND APPLICATION

This section is not applicable to a facility with no Limiting Conditions for Operation

2.0 SAFETY LIMITS

This section is not applicable since Humboldt Bay Power Plant (HBPP) Unit 3 is permanently defueled.

3.0 LIMITING CONDITION FOR OPERATION (LCO) APPLICABILITY

This section is not applicable to a facility with no Limiting Conditions for Operation

3.0 SURVEILLANCE REQUIREMENT (SR) APPLICABILITY

This section is not applicable to a facility with no Limiting Conditions for Operation

3.1 DEFUELED SYSTEMS

3.1.1 Fuel Storage Pool Water Level

This section is not applicable to a facility with all of the spent nuclear fuel stored in an ISFSI.

3.1 DEFUELED SYSTEMS

3.1.2 Spent Fuel Pool Load Restrictions

This section is not applicable to a facility with all of the spent nuclear fuel stored in an ISFSI

3.1 DEFUELED SYSTEMS

3.1.3 Fuel Storage Pool Liner Water Level

This section is not applicable in accordance with Humboldt Bay Power Plant, Unit 3 Calculation NX-356, “Radiological Consequences for Breach of Defueled Spent Fuel Pool, June 2009.”

4.1 Site Location

HBPP Unit 3 is located in Humboldt County, California, approximately 4 miles southwest of the center of the city of Eureka, on a site owned and controlled by Pacific Gas & Electric Company.

4.2 Fuel Storage

4.2.1 Fuel assemblies shall not be stored in the Spent Fuel Storage Pool. Fuel assemblies previously stored in the Spent Fuel Storage Pool are now stored in dry casks in the ISFSI.

5.0 ADMINISTRATIVE CONTROLS

5.1 Responsibility

Personnel responsibilities are identified in the Quality Assurance Plan.

5.2 Organization

This section is not applicable to a facility with all of the spent nuclear fuel stored in an ISFSI. (Pages 5.0-3 and 5.0-4 have been deleted).

5.3 Facility Staff Qualifications

Facility staff qualifications are identified in the Quality Assurance Plan.

5.4 Training

This section is not applicable to a facility with all of the spent nuclear fuel stored in an ISFSI.

5.5 Procedures

5.5.1 Written procedures shall be established, implemented, and maintained covering the following activities:

a. (Deleted)

b. Fire Protection Program implementation;

c. Quality assurance for radiological effluent and environmental monitoring;

d. (Deleted)

e. All programs specified in Specification 5.6.

5.6 Programs and Manuals

The following programs shall be established, implemented and maintained.

5.6.1 Offsite Dose Calculation Manual (ODCM)

ODCM requirements are described in the Quality Assurance Plan.

(Continued)

5.6.2 Technical Specification (TS) Bases Control Program

This section is not applicable to a facility with no Limiting Conditions for Operation

5.6.3 Fuel Storage Pool Water Chemistry Program

This section is not applicable to a facility with all of the spent nuclear fuel stored in an ISFSI.

5.6.4 Radioactive Effluent Controls Program (RECP)

RECP requirements are described in the Quality Assurance Plan.

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5.6.5 Neutron Absorber Surveillance Program

This section is not applicable to a facility with all of the spent nuclear fuel stored in an ISFSI.

5.7 Reporting Requirements

Reporting requirements are described in the Quality Assurance Plan.

5.8 High Radiation Area

As provided in paragraph 20.1601(c) of 10CFR Part 20, the following controls shall be applied to high radiation areas in place of the controls required by paragraph 20.1601(a) and (b) of 10CFR Part 20:

5.8.1 High Radiation Areas with dose Rates Not Exceeding 1.0 rem/hour at 30 Centimeters from the Radiation Source or from any Surface Penetrated by the Radiation:

a. Each entryway to such an area shall be barricaded and conspicuously posted as a high radiation area. Such barricades may be opened as necessary to permit entry or exit of personnel or equipment.

b. Access to, and activities in, each such area shall be controlled by means of a Radiation Work Permit (RWP) or equivalent that includes specification of radiation dose rates in the immediate work area(s) and other appropriate radiation protection equipment and measures.

c. Individuals qualified in radiation protection procedures and personnel continuously escorted by such individuals may be exempted from the requirement for an RWP or equivalent while performing their assigned duties provided that they are otherwise following plant radiation protection procedures for entry to, exit from, and work in such areas.

d. Each individual or group entering such an area shall possess:

1. A radiation monitoring device that continuously displays radiation dose rates in the area, or

2 A radiation monitoring device that continuously integrates the radiation dose rates in the area and alarms when the device's dose alarm setpoint is reached, with an appropriate alarm setpoint, or

3. A radiation monitoring device that continuously transmits dose rate and cumulative dose information to a remote receiver monitored by radiation protection personnel responsible for controlling personnel radiation exposure within the area, or

4. A self-reading dosimeter (e.g., pocket ionization chamber or electronic dosimeter), and

(i) Be under the surveillance, as specified in the RWP or equivalent, while in the area, of an individual qualified in radiation protection procedures, equipped with a radiation monitoring device that continuously displays radiation dose rates in the area, who is responsible for controlling personnel exposure within the area, or

(continued)

5.8.1 High Radiation Areas with Dose Rates Not Exceeding 1.0 rem/hour at 30 Centimeters from the Radiation Source or from any Surface Penetrated by the Radiation (continued):

(ii) Be under the surveillance as specified in the RWP or equivalent, while in the area, by means of closed circuit television, of personnel qualified in radiation protection procedures, responsible for controlling personnel radiation exposure in the area, and with the means to communicate with individuals in the area who are covered by such surveillance.

e. Except for individuals qualified in radiation protection procedures or personnel continuously escorted by such individuals, entry into such areas shall be made only after dose rates in the area have been determined and entry personnel are knowledgeable of them. These continuously escorted personnel will receive a pre-job briefing prior to entry into such areas. This dose rate determination, knowledge, and pre-job briefing does not require documentation prior to initial entry.

5.8.2 High Radiation Areas with Dose Rates Greater than 1.0 rem/hour at 30 Centimeters from the Radiation Source or from any Surface Penetrated by the Radiation, but less than 500 rads/hour at 1 meter from the Radiation Source or from any Surface Penetrated by the Radiation:

a. Each entryway to such an area shall be conspicuously posted as a high radiation area and shall be provided with a locked or continuously guarded door or gate that prevents unauthorized entry, and, in addition:

1. All such door and gate keys shall be maintained under the administrative control of the shift foreman, radiation protection manager, or his or her designee.

2. Doors and gates shall remain locked except during periods of personnel or equipment entry or exit.

b. Access to, and activities in, each such area shall be controlled by means of an RWP or equivalent that includes specification of radiation dose rates in the immediate work area(s) and other appropriate radiation protection equipment and measures.

c. Individuals qualified in radiation protection procedures may be exempted from the requirement for an RWP or equivalent while performing radiation surveys in such areas provided that they are otherwise following plant radiation protection procedures for entry to, exit from, and work in such areas.

d. Each individual or group entering such an area shall possess:

1. A radiation monitoring device that continuously integrates the radiation dose rates in the area and alarms when the device's dose alarm setpoint is reached, with an appropriate alarm setpoint, or

(continued)

5.8 High Radiation Area

5.8.2 High Radiation Areas with Dose Rates Greater than 1.0 rem/hour at 30 Centimeters from Radiation Source or from any Surface Penetrated by the Radiation, but less than 500 rads/hour at 1 Meter from the Radiation Source or from any Surface Penetrated by the Radiation: (continued)

2. A radiation monitoring device that continuously transmits dose rate and cumulative dose information to a remote receiver monitored by radiation protection personnel responsible for controlling personnel radiation exposure within the area with the means to communicate with and control every individual in the area, or

3. A self-reading dosimeter (e.g., pocket ionization chamber or electronic dosimeter), and

   (i) Be under the surveillance, as specified in the RWP or equivalent, while in the area, of an individual qualified in radiation protection procedures, equipped with a radiation monitoring device that continuously displays radiation dose rates in the area, who is responsible for controlling personnel exposure within the area, or

   (ii) Be under the surveillance as specified in the RWP or equivalent, while in the area, by means of closed circuit television, of personnel qualified in radiation protection procedures, responsible for controlling personnel radiation exposure in the area, and with the means to communicate with and control every individual in the area, or

4. In those cases where options (2) and (3), above, are impractical or determined to be inconsistent with the “As Low As is Reasonably Achievable” principle, a radiation monitoring device that continuously displays radiation dose rates in the area.

e. Except for individuals qualified in radiation protection procedures or personnel continuously escorted by such individuals, entry into such areas shall be made only after dose rates in the area have been determined and entry personnel are knowledgeable of them. These continuously escorted personnel will receive a pre-job briefing prior to entry into such areas. This dose rate determination, knowledge, and pre-job briefing does not require documentation prior to initial entry.

f. Such individual areas that are within a large area, such as the refueling building, where no enclosure exists for the purpose of locking and where no enclosure can reasonably be constructed around the individual area, need not be controlled by a locked door or gate nor continuously guarded, but shall be barricaded, conspicuously posted, and a clearly visible flashing light shall be activated at the area as a warning device.