

September 25, 2006

Mr. James H. Lash  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Beaver Valley Power Station  
Mail Stop A-BV-SEB1  
P.O. Box 4, Route 168  
Shippingport, PA 15077

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2 (BVPS-1 AND 2) -  
ISSUANCE OF AMENDMENTS RE: CONTROL ROOM HABITABILITY AND  
EMERGENCY AIR CLEANUP AND PRESSURIZATION (TAC NOS. MC6050  
AND MC6051)

Dear Mr. Lash:

The Commission has issued the enclosed Amendment No. 277 to Facility Operating License No. DPR-66 and Amendment No. 159 to Facility Operating License No. NPF-73 for the BVPS-1 and 2. These amendments consist of changes to the Technical Specifications (TSs) in response to your application dated February 17, 2005, as supplemented May 12 and August 22, 2006.

These amendments revise current TSs 3.7.7.1 (BVPS-1), "Control Room Emergency Habitability Systems," and 3.7.7 (BVPS-2), "Control Room Emergency Air Cleanup and Pressurization System" by dividing these TSs into two specifications, addressing control room emergency ventilation and control room air cooling functions separately. The amendments also improve consistency with the Standard TSs and improve consistency between the units.

J. Lash

-2-

A copy of our safety evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

**/RA/**

Timothy G. Colburn, Senior Project Manager  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-334 and 50-412

Enclosures:

1. Amendment No. 277 to DPR-66
2. Amendment No. 159 to NPF-73
3. Safety Evaluation

cc w/encls: See next page

J. Lash

-2-

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Timothy G. Colburn, Senior Project Manager  
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FIRSTENERGY NUCLEAR OPERATING COMPANY

FIRSTENERGY NUCLEAR GENERATION CORP.

DOCKET NO. 50-334

BEAVER VALLEY POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 277  
License No. DPR-66

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by FirstEnergy Nuclear Operating Company, et al. (the licensee), dated February 17, 2005, as supplemented May 12 and August 22, 2006, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-66 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 277, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance and shall be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA/*

Richard J. Laufer, Chief  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Attachment: Changes to the License and  
Technical Specifications

Date of Issuance: September 25, 2006

ATTACHMENT TO LICENSE AMENDMENT NO. 277

FACILITY OPERATING LICENSE NO. DPR-66

DOCKET NO. 50-334

Replace the following page of the Facility Operating License with the attached revised page. The revised page is identified by amendment number and contains marginal lines indicating the areas of change.

Remove  
3

Insert  
3

Replace the following pages of Appendix A Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove  
VII  
3/4 3-35  
3/4 3-35a  
3/4 3-36  
3/4 7-15  
3/4 7-16  
3/4 7-16a  
3/4 7-17  
3/4 7-18  
3/4 7-18a  
3/4 7-18b

Insert  
VII  
3/4 3-35  
3/4 3-35a  
3/4 3-36  
3/4 7-15  
3/4 7-16  
3/4 7-16a  
3/4 7-17  
3/4 7-18  
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FIRSTENERGY NUCLEAR OPERATING COMPANY

FIRSTENERGY NUCLEAR GENERATION CORP.

OHIO EDISON COMPANY

THE TOLEDO EDISON COMPANY

DOCKET NO. 50-412

BEAVER VALLEY POWER STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.159  
License No. NPF-73

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by FirstEnergy Nuclear Operating Company, et al. (the licensee), dated February 17, 2005, as supplemented May 12 and August 22, 2006, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-73 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 159, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto are hereby incorporated in the license. FENOC shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of its issuance and shall be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA/*

Richard J. Laufer, Chief  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Attachment: Changes to the License and  
Technical Specifications

Date of Issuance: September 25, 2006

ATTACHMENT TO LICENSE AMENDMENT NO. 159

FACILITY OPERATING LICENSE NO. NPF-73

DOCKET NO. 50-412

Replace the following page of the Facility Operating License with the attached revised page. The revised page is identified by amendment number and contains marginal lines indicating the areas of change.

Remove

3a

Insert

3a

Replace the following pages of Appendix A Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove

VII

3/4 7-14

3/4 7-15

3/4 7-16

3/4 7-17

3/4 7-17a

Insert

VII

3/4 7-14

3/4 7-15

3/4 7-16

3/4 7-17

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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NOS. 277 AND 159 TO FACILITY OPERATING  
LICENSE NOS. DPR-66 AND NPF-73  
FIRSTENERGY NUCLEAR OPERATING COMPANY  
FIRSTENERGY NUCLEAR GENERATION CORP.  
OHIO EDISON COMPANY  
THE TOLEDO EDISON COMPANY  
BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2 (BVPS-1 AND 2)  
DOCKET NOS. 50-334 AND 50-412

## 1.0 INTRODUCTION

By application dated February 17, 2005, as supplemented May 12 and August 22, 2006 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML050540581, ML061360076, and ML062360185, respectively, the FirstEnergy Nuclear Operating Company (FENOC, the licensee), requested changes to the Technical Specifications (TSs) for BVPS-1 and 2. The supplements dated May 12 and August 22, 2006, provided additional information that clarified the application, did not expand the scope of the application as originally noticed, and did not change the staff's original proposed no significant hazards consideration determination as published in the *Federal Register* on April 26, 2005 (70 FR 21458).

The proposed changes would revise current TSs 3.7.7.1 (BVPS-1), "Control Room Emergency Habitability Systems," and 3.7.7 (BVPS-2), "Control Room Emergency Air Cleanup and Pressurization System." Specifically, the proposed changes would revise the current TSs by dividing these TSs into two specifications, addressing control room emergency ventilation and control room air cooling functions separately. The amendments also improve consistency with the Standard TSs and improve consistency between the units.

### 1.1 Background

BVPS-1 and 2 use pressurized-water reactor (PWR) Nuclear Steam Supply Systems (NSSSs) and turbine generators (TGs) furnished by the Westinghouse Electric Corporation. The balance of the units were designed and constructed by the licensee, with the assistance of their agent, Stone & Webster Engineering Corporation (S&W). As indicated above, in addition to creating separate TSs, the proposed changes will revise the TSs to improve consistency

between BVPS-1 and 2 and make the BVPS-1 and 2 TSs more consistent with the Improved Standard Technical Specifications (ISTS) for Westinghouse Plants, NUREG-1431, Revision 3.

The proposed amendments will revise the control room habitability systems' TSs for BVPS-1 and 2. Each BVPS unit's control room habitability systems include a control room emergency ventilation system (CREVS) and a control room emergency air cooling system (CREACS). These control room habitability systems meet the regulatory requirements of Title 10 of the *Code of Federal Regulations* (10 CFR), Appendix A to Part 50, "GENERAL DESIGN CRITERIA FOR NUCLEAR POWER PLANTS [GDC]" 1, 2, 3, 4, 5, and 19 as described in each unit's Updated Final Safety Analysis Report (USFAR). The BVPS-1 and 2 control rooms are both a positive pressure design and share a common envelope.

In accordance with the licensee's application dated February 17, 2005, the CREVS for BVPS-1 and 2 are configured in accordance with the facilities design and licensing basis. Encompassed within the CREVS design is the control room boundary, whose physical integrity is required in order for CREVS to be able to adequately perform its function. BVPS-1 and 2 CREVS are in physically separate locations within the control room envelope, each with its own components on its side of the combined control room envelope.

## 1.2 Licensee's Approach

The proposed changes are separated into four numbered groups wherein change number 1 (group 1), the licensee is proposing a change that will add a new TS for BVPS-1 that will be titled "Control Room Emergency Air Cooling System" (CREACS), and numbered 3/4.7.6. This change includes reorganizing the control room habitability TSs into two separate TSs consistent with the ISTS. Change number 2 (group 2) addresses the revision of the BVPS-1 Applicability requirements for the control room habitability TSs and associated control room radiation monitors to address fuel movement involving only recently irradiated fuel instead of fuel movement involving any irradiated fuel. In change request number 3 (group 3), the licensee addresses the category of changes necessary to make the existing BVPS-1 and 2 TS requirements for the CREVS as consistent as possible between the units and as consistent as possible with the corresponding ISTS requirements. Change number 4 (group 4) addresses BVPS-1 TS surveillances (4.7.7.1.2) which are replaced in their entirety by a requirement to comply with the applicable BVPS-2 surveillance requirement (SR) (4.7.7.1).

## 2.0 REGULATORY EVALUATION

The purpose of the Nuclear Regulatory Commission (NRC) staff's review is to evaluate the licensee's assessment of the impact of the proposed changes to the BVPS-1 and 2 TSs on design-basis analyses. The NRC staff evaluated the licensee's application based on the requirements of GDC 19, "Control room," as supplemented by Section 6.4 of NUREG-0800, "Standard Review Plan," Technical Specification Task Force 51 (TSTF-51), Revision 2, and NUREG-1431, Revision 3, "Standard Technical Specifications - Westinghouse Plants."

## 3.0 TECHNICAL EVALUATION

The licensee stated that the proposed changes for BVPS-1 and 2 are consistent with the current design basis and licensing basis for BVPS-1 and 2. The proposed changes reorganize

the existing TS requirements to be more consistent with the standard presentation of these requirements.

TSs 3.7.7.1 "Control Room Emergency Habitability Systems" (BVPS-1) and 3.7.7 "Control Room Emergency Air Cleanup and Pressurization System" (BVPS-2) previously addressed both CREACS and CREVS components together. The proposed change provides two separate TSs, consistent with the ISTS, that provide more system-specific requirements for each of the control room habitability systems. The licensee stated that the proposed change improves the clarity and understanding of the TS requirements for each control room habitability system.

The proposed changes are separated into four numbered groups wherein change number 1 (group 1) the licensee is proposing a change that will add a new TS for BVPS-1 that will be titled "Control Room Emergency Air Cooling System (CREACS) and numbered 3/4.7.6. Previously, BVPS-1 TS 3/4.7.6 had been deleted by Amendment Nos. 246 and 247. The new TS for the CREACS will be inserted into the unused TS (3/4.7.6) space. This change includes reorganizing the control room habitability TSs into two separate TSs consistent with the ISTS. The new TSs will add Limiting Condition for Operation (LCO), Applicability, Action and SR criteria for CREACS. The new CREACS TS replaces the control room air temperature requirements that are part of the existing Control Room Habitability TS (3/4.7.7). This includes BVPS-1 LCO 3.7.7.1.c, Action "c", Action "c.1", SR 4.7.7.1.1.a, and BVPS-2 SR 4.7.7.1.a which are replaced by the adoption of a new TS 3/4.7.6 for the CREACS. The TS title of 3/4.7.7.1 (BVPS-1) and 3/4.7.7 (BVPS-2) will be revised to "Control Room Emergency Ventilation Systems (CREVS)." This change will make the BVPS-1 CREVS TS number 3/4.7.7.1, which will be similar to BVPS-2 CREVS TS number 3/4.7.7.

The licensee stated that the air cooling portion of the BVPS-1 and 2 control room habitability systems will be addressed by its own separate TSs, and that this is consistent with ISTS 3.7.11. Current BVPS-1 TS LCO 3.7.7.1.c and current BVPS-2 SR 4.7.7.1.a specify a requirement to verify that the control room temperature is  $\leq 88$  °F. The licensee also stated that the specified temperature of 88 °F does not represent a design limit and was chosen for inclusion in the original TS arbitrarily to provide a positive indication that the control room air conditioning system was functioning. The design basis of the emergency cooling coils in the CREACS is to maintain the control room air temperature  $\leq 120$  °F. Additionally, the licensee stated, and the NRC staff acknowledges, that the emergency cooling coils are not normally in service, and that verification of the control room air temperature does not provide an adequate verification of the heat removal capacity of the emergency cooling coils. To address this issue, the licensee's proposed change includes removing BVPS-1 LCO 3.7.7.1.c and BVPS-2 SR 4.7.7.1.a and adding BVPS-1 and 2 SR 4.7.6.1 to verify the heat removal capacity of the CREACS every 18 months using the emergency cooling coils. The NRC staff has determined that an 18-month surveillance interval is reasonable and adequate to verify operability of this system, therefore, the staff finds this acceptable.

In addition, the licensee stated that the proposed LCO requires two trains of CREACS to be operable. The BVPS-1 and 2 main control rooms share a common area and a common enclosed environment when the control rooms are isolated from the outside atmosphere. The CREACS TS only addresses heat removal. Each train of the BVPS-1 and 2 CREACS must be capable of removing sufficient heat to maintain the temperature on its side of the control room. Although the BVPS-1 and 2 CREACS arrangements are slightly different, each unit's CREACS

will circulate air across redundant heat exchangers cooled by river water at BVPS-1 and service water at BVPS-2. Since each unit's CREACS only circulates air on its respective side of the control room, neither unit's CREACS required train can be used to ensure sufficient temperature control of the other unit's side of the control room.

Based upon the NRC staff's review and assessment of the information provided by the licensee in its letter dated February 17, 2005, the staff finds this proposed change (group 1) acceptable because no physical plant modifications are involved, and as stated by the licensee, the proposed changes provide two separate TSs consistent with the ISTS, provide more system-specific requirements for each control room habitability system, improve clarity (and thereby enhance safety), and are consistent with the current licensing and design basis.

In change number 2 (group 2), the requested change addresses the revision of the BVPS-1 Applicability requirements for the control room habitability TS (proposed new CREVS TS) and associated control room radiation monitors to address fuel movement involving only recently irradiated fuel instead of fuel movement involving any irradiated fuel. This change does not affect BVPS-2 because the current corresponding BVPS-2 Applicability (for CREVS and the associated control room radiation monitors) already addresses fuel movement involving recently irradiated fuel. The change includes the following:

BVPS-1 TS 3.3.3.1, "Radiation Monitoring," Table 3.3.6 Notation (4), Action 41, in Table 3.3-6 and Table 4.3-3 footnote ## have been revised to address only 'recently' irradiated fuel assemblies.

BVPS-1 TS 3.7.7.1, "Control Room Emergency Habitability Systems," (proposed BVPS-1 3.7.7, "CREVS") Applicability has been revised to address only recently irradiated fuel assemblies.

BVPS-1 TS 3.7.7 Action b has been clarified to apply to recently irradiated fuel assemblies.

The licensee stated that the changes proposed in this request include the separation of the CREVS and CREACS into two different TSs. Since the CREACS may be used to satisfy the BVPS-1 fuel-handling accident (FHA) radiological safety analysis assumption of a control room atmosphere purge following an FHA involving non-recently irradiated fuel, the proposed Applicability of the new BVPS-1 CREACS TS addresses fuel movement involving recently irradiated and non-recently irradiated fuel. However, the isolation and pressurization functions of the CREVS (and associated radiation monitors) are not required to satisfy the BVPS-1 FHA safety analysis assumptions to limit the radiological dose from an FHA involving non-recently irradiated fuel. Therefore, the Applicability of the new separate CREVS TS (and associated control room radiation monitors) is revised to no longer require CREVS during fuel movement involving non-recently irradiated fuel. The Applicability of the proposed new BVPS-1 CREVS TS and associated control room radiation monitors will continue to require system and component operability during Modes 1-4 and for fuel movement involving recently irradiated fuel.

The licensee also stated, and the NRC staff agrees, that the proposed change to the BVPS-1 applicability for CREVS and the control room radiation monitors makes these BVPS-1 TS



requirements consistent with the current corresponding BVPS-2 TS requirements. The corresponding BVPS-2 TS 3/4.7.7 Applicability (and the Applicability for the BVPS-2 control room radiation monitors) were previously revised to only address fuel movement involving recently irradiated fuel in BVPS-2 Amendment No. 121, dated August 30, 2001 (ADAMS Accession No. ML012330496). The licensee stated that the basis for the acceptability of the BVPS-2 change that incorporated "recently" irradiated fuel in the Applicability of TS 3/4.7.7 (and the Applicability for BVPS-2 control room radiation monitors) as discussed in the NRC safety evaluation (SE) associated with Amendment No. 121, is now applicable to the corresponding BVPS-1 requirements.

Section 2.2.1 [adding the term "recently irradiated" fuel to various TS Sections] of the NRC staff's SE for Amendment No. 121 states, in part, the following; "The term 'recently' is added to Applicability and requirements preceding the word 'irradiated' in the proposed changes for several TSs. The term 'recently' when used in this context represents the decay period for the reduction of radionuclide inventory available for release in the event of an FHA. The licensee has determined that the calculated dose consequences resulting from a design-basis FHA will not exceed 10 CFR 50.67 dose limitations after a (specified) decay period of 100 hours. This change is consistent with NRC-approved Technical Specification Task Force Traveler form 51 (TSTF-51), Revision 2, to NUREG-1431, "Standard Technical Specifications - Westinghouse Plants," which was approved on October 15, 1999." Because of this statement and other applicable parts of the staff's SE for Amendment No. 121 that provided the basis for the acceptability of the BVPS-2 change that incorporated 'recently' in the applicability of TS 3/4.7.7, the staff finds requested change number 2 (group 2) acceptable.

With respect to change number 3 (group 3), the licensee addressed the category of changes necessary to make the existing BVPS-1 and 2 TS requirements for CREVS as consistent as possible between the units and as consistent as possible with the corresponding ISTS requirement, ISTS 3.7.10, "Control Room Emergency Filtration System," however, because of format considerations, the ISTS requirements are revised as necessary to integrate uniformly with the existing BVPS TS format and presentation. BVPS does not have a Ventilation Filter Test Program like the ISTS to simplify the presentation of SRs. Therefore, the current BVPS-1 and 2 SRs for filter testing are retained in the proposed CREVS TS. The list of changes that fall into this category are:

1. The LCO is changed to require two CREVS trains operable.
2. BVPS-1 and 2 LCOs 3.7.7.1.a/b are being deleted and the details on individual component operability are being relocated to the TS Bases. This relocation includes the footnote \*\* contents pertaining to automatic actuation on CIB.
3. A Note is added to the LCO to allow the control room boundary to be open intermittently under administrative control.
4. BVPS-1 LCO 3.7.7.1, \* footnote to the LCO : the phrase "train of dampers" is replaced with "CREVS train."



5. BVPS-2 LCO 3.7.7, \* footnote to the LCO: the phrase “train of dampers and fans of the pressurization filtration unit” is replaced with “CREVS train.” This footnote is also moved to modify the word “OPERABLE” in the proposed LCO wording.
6. A new Action a.2 is added to address an inoperable control room boundary. A new action statement a.3 is added to provide guidance when two required CREVS trains are inoperable for reasons other than those specified in proposed Action a.2.
7. BVPS-1 LCO 3.7.7.1, action “a” is revised and becomes proposed action “a.1” and is placed under a new action header titled “MODES 1, 2, 3 and 4.” The current action “a” is additionally modified by replacing the words “less than two emergency ventilation subsystems, fans, and associated filters OPERABLE, restore at least two subsystems” with the words “one required CREVS train inoperable, restore the CREVS train...”
8. BVPS-2 LCO 3.7.7, action under the header “MODES 1, 2, 3 and 4” is revised and becomes proposed action “a.1”. The words “required CREVS” are added to modify the word “train.” The words “of the pressurization filtration Unit or one of two isolation dampers in series” are deleted. The word “system” is replaced with “CREVS train.” The words “at least” are deleted.
9. BVPS-1 LCO 3.7.7.1, current action b. and b.1 are replaced by simplified actions a.1, b.1, and b.2. The current action a.1 is deleted.
10. BVPS-2 LCO 3.7.7, current actions “a” and “b,” under movement of recently irradiated fuel, are simplified to address one required CREVS train being inoperable or two required CREVS trains being inoperable when performing fuel movement involving recently irradiated fuel assemblies. The details on individual component inoperability are deleted. These two actions are modified to require “immediate” suspension of fuel assembly movement. Proposed action b.1 is also modified to allow plant operation beyond 7 days if the remaining CREVS train is placed in the emergency pressurization mode of operation.
11. BVPS-1 SR 4.7.7.1.1: the phrase “emergency ventilation subsystem” is replaced with “CREVS.”
12. BVPS-2 SR 4.7.7.1: the words “Control Room Emergency Air Cleanup and Pressurization System” are replaced with “CREVS.”
13. BVPS-1 SR 4.7.7.1.1.b: the phrase “initiating flow through the HEPA filter and charcoal adsorber train and” is replaced with “verifying that the CREVS train operates.” The words “with the heaters in operation” are added following the words “15 minutes.” The symbol for “greater than or equal to” is added prior to “15 minutes.”
14. BVPS-2 SR 4.7.7.1.b: the phrase “initiating flow through the HEPA filter and charcoal adsorber train and” is replaced with “verifying that each CREVS train operates.”
15. BVPS-2 SR 4.7.7.1.c.1: the phrase “the pressurization filtration system” is replaced with “each CREVS train.” The charcoal adsorber efficiency testing requirements are clarified

to require a penetration and bypass leakage acceptance criteria of less than 0.05 percent rather than removal capability of greater than or equal to 99.5 percent.

16. BVPS-2 SR 4.7.7.1.c.2: the phrase “the pressurization filtration system” is replaced with “each CREVS train.” The HEPA filter efficiency testing requirements are clarified to require a penetration and bypass leakage acceptance criteria of less than 0.05 percent rather than removal capability of greater than or equal to 99.5 percent.
17. BVPS-1 SR 4.7.7.1.1.c.1: the phrase “the ventilation system” is replaced with “the CREVS train.”
18. BVPS-1 SR 4.7.7.1.1.c.3: the word “system” is replaced with “of the CREVS train.”
19. BVPS-2 SR 4.7.7.1.c.3: the word “system” is replaced with “of each CREVS train.”
20. BVPS-1 SR 4.7.7.1.1.d.1: the phrase “the ventilation system” is replaced with “the CREVS train.”
21. BVPS-2 SR 4.7.7.1.e.1: the phrase “the pressurization filtration system” is replaced with “each CREVS train.”
22. BVPS-1 SR 4.7.7.1.1.d.2 (BVPS-2 SR 4.7.7.1.e.2) that requires verification of automatic train actuation is revised to state only that each CREVS train actuates on a simulated or actual actuation signal without reference to the specific actuation signal or without reference to specific component movements (consistent with the ISTS). The details on specific component actuation and actuation signals are moved to the TS Bases.
23. BVPS-1 SR 4.7.7.1.1.d.3 phrase “one emergency ventilation subsystem” is replaced with “each CREVS train.” The surveillance interval is revised to 36 months on a STAGGERED TEST BASIS. Also, the word “system” is deleted and the words “at a flow rate of 800 - 1000 cfm” are added following the word “operation.” As the test frequency is changed to 36 months on a staggered basis, the SR is moved to SR 4.7.7.1.e.
24. BVPS-2 SR 4.7.7.1.e.4 phrase “the pressurization filtration” is replaced with “each CREVS train.” The surveillance interval is revised to 36 months on a STAGGERED TEST BASIS. Also, the word “system” is deleted and the words “at a flow rate of 800 - 1000 cfm” are added following the word “operation.” As the test frequency is changed to 36 months on a staggered basis, the SR is moved to SR 4.7.7.1.f.
25. Various information in the existing BVPS-1 and 2 TSs are relocated to the expanded TS Bases to implement the changes described above and to make the scope and content of the proposed CREVS TSs more consistent with the corresponding ISTS 3.7.10.

The licensee stated that these proposed changes that replace the more detailed current TS requirements with “CREVS train” are acceptable because they do not eliminate any prior requirements, and, in some cases, may impose additional requirements due to the enlarged scope implicit by referencing the whole CREVS train, rather than explicitly described certain components within the train. The NRC staff agrees with this assessment and finds that these

requested changes (group 3) do not change the intent of the TSs and are substantially editorial changes. Those changes that are not clearly or completely editorial (such as item 3) have been found acceptable because the proposed changes clarified or simplified an existing TS or have been determined to be consistent with the ISTS which have been reviewed and found acceptable by the staff. In all cases, the requested changes have been found consistent with the BVPS current licensing bases.

In change number 4 (group 4), the licensee addresses BVPS-1 TS SR 4.7.7.1.2 which is replaced in its entirety by a requirement to comply with the applicable BVPS-2 SR (4.7.7.1).

The current BVPS-1 TSs can credit any two of the three available BVPS-1 or 2 CREVS trains to meet the current BVPS-1 LCO 3.7.7.1. The current BVPS-2 TSs credit the two CREVS trains associated with the BVPS-2 side of the common control room to meet the BVPS-2 LCO 3.7.7. The current BVPS-1 SR 4.7.7.1.2 addresses the operability of the BVPS-2 CREVS trains. The current BVPS-1 SR 4.7.7.1.2 reiterated the criteria within the BVPS-2 TS SR 4.7.7.1. For consistency between the units, the BVPS-1 SR is revised to reference the BVPS-2 TS SR 4.7.7.1 to ensure that the same surveillance criteria are applied to the BVPS-2 CREVS trains. The proposed change is acceptable because the change continues to assure that the BVPS-2 CREVS are adequately tested to demonstrate operability. The proposed change continues to maintain a reference within the BVPS-1 TSs that requires compliance with the appropriate BVPS-2 surveillances. The proposed BVPS-1 requirement continues to ensure that the required surveillances will be performed on BVPS-2 components when the BVPS-2 CREVS is credited by BVPS-1 to meet the BVPS-1 LCO.

Based on this analyses by the licensee, it is the NRC staff's finding that this change will maintain a reference in the BVPS-1 TSs that will require BVPS-1 to comply with BVPS-2 SR 4.7.7.1, and that this reference will ensure that the required CREVS surveillances will be performed on both BVPS-1 and 2.

By letter dated August 22, 2006, the licensee provided a supplement to their application dated February 17, 2005, to further clarify the intent of the requested change to apply to recently irradiated fuel and to clarify the charcoal adsorber and HEPA filter efficiency requirements to require a penetration and bypass leakage acceptance criteria of less than 0.05 percent rather than removal capability of greater than or equal to 99.5 percent. The NRC staff has determined that the requested supplemental change does not change the way the surveillance is to be conducted at either BVPS-1 or 2, and it does not change the intent of the SRs. Therefore, the NRC staff finds that this is an editorial change and is acceptable.

#### 4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Pennsylvania State official was notified of the proposed issuance of the amendments. The State official had no comments.

#### 5.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and change surveillance requirements. The NRC staff has determined that the amendments involve no

significant increase in the amounts and no significant change in the types of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding (70 FR 21458). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

## 6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

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Date: September 25, 2006