Mr. Nathan L. Haskell Director, Licensing Palisades Plant 27780 Blue Star Memorial Highway Covert, MI 49043

SUBJECT: PALISADES PLANT - ISSUANCE OF AMENDMENT RE: CONTROL ROOM VENTILATION SYSTEM TECHNICAL SPECIFICATIONS (TAC NO. M99651)

Dear Mr. Haskell:

The Commission has issued the enclosed Amendment No. 186 to Facility Operating License No. DPR-20 for the Palisades Plant. The amendment consists of changes to the Technical Specifications (TS) in response to your application dated September 3, 1997. The amendment revises TS 3.14, Control Room Ventilation, to be consistent with NUREG-1432, Standard Technical Specifications, Combustion Engineering Plants.

A copy of our related Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

Original signed by:

Robert G. Schaaf, Project Manager, Section 1 Project Directorate III Division of Licensing Project Management Office of Nuclear Reactor Regulation

Docket No. 50-255

Enclosures: 1. Amendment No. ¹⁸⁶ to DPR-20 2. Safety Evaluation

cc w/encl: See next page

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UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

May 6, 1999

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Docket No. 50-255

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cc w/encl: See next page

Mr. Nathan L. Haskell Consumers Energy Company

CC:

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Mr. Thomas J. Palmisano Site Vice President Palisades Plant 27780 Blue Star Memorial Highway Covert, Michigan 49043

Mr. Robert A. Fenech, Sr Vice Pres Nuclear, Fossil, and Hydro Operations Consumers Energy Company 212 West Michigan Avenue Jackson, Michigan 49201

Arunas T. Udrys, Esquire Consumers Energy Company 212 West Michigan Avenue Jackson, Michigan 49201

Regional Administrator, Region III U.S. Nuclear Regulatory Commission 801 Warrenville Road Lisle, Illinois 60532-4351

Jerry Sarno, Supervisor Covert Township P. O. Box 35 Covert, Michigan 49043

Office of the Governor P. O. Box 30013 Lansing, Michigan 48909

U.S. Nuclear Regulatory Commission Resident Inspector's Office Palisades Plant 27782 Blue Star Memorial Highway Covert, Michigan 49043

Palisades Plant

Drinking Water and Radiological Protection Division Michigan Department of Environmental Quality 3423 N. Martin Luther King Jr Blvd P. O. Box 30630 CPH Mailroom Lansing, Michigan 48909-8130

Michigan Department of Attorney General Special Litigation Division 630 Law Building P.O. Box 30212 Lansing, Michigan 48909 DATED: <u>May</u> 6, 1999

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AMENDMENT NO. 186 TO FACILITY OPERATING LICENSE NO. DPR-20 - PALISADES

Docket File (50-255) PUBLIC PD3/Sec III-1 Rdg J. Zwolinski/S. Black C. Thomas/G. Dick T. J. Kim R. Shaaf T. Harris OGC G. Hill (2) W. Beckner ACRS A. Vegel, RIII SEDB (RCN)

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UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

CONSUMERS ENERGY COMPANY

DOCKET NO. 50-255

PALISADES PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 186 License No. DPR-20

- The Nuclear Regulatory Commission (the Commission) has found that: 1.
 - The application for amendment by Consumers Energy Company (the licensee) Α. dated September 3, 1997, 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;
 - The facility will operate in conformity with the application, the provisions of the Β. Act, and the rules and regulations of the Commission;
 - There is reasonable assurance (i) that the activities authorized by this C. 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:
 - The issuance of this amendment will not be inimical to the common D. defense and security or to the health and safety of the public;
 - Ε. 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.
- Accordingly, the license is amended by changes to the Technical Specifications as 2. indicated in the attachment to the license amendment and Paragraph 2.C.(2) of Facility Operating License No. DPR-20 is hereby amended to read as follows:

The Technical Specifications contained in Appendix A, as revised through Amendment No. 186, and the Environmental Protection Plan contained in Appendix B are hereby incorporated in the license. Consumers Energy Company 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 issuance, and shall be implemented within 60 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

George F. Dick, Jr., Acting Chief, Section 1 Project Directorate III Division of Licensing Project Management Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: May 6, 1999

ATTACHMENT TO LICENSE AMENDMENT NO. 186

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FACILITY OPERATING LICENSE NO. DPR-20

DOCKET NO. 50-255

Revise Appendix A Technical Specifications by removing the pages identified below and inserting the attached pages. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change.

REMOVE	INSERT
ii	ii
3-61	3-61
3-62	3-62
	B 3.14-1
	B 3.14-2
	B 3.14-3
	B 3.14-4
	B 3.14-5
	B 3.14-6
	B 3.14-7
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B 3.17-5	B 3.17-5
B 3.17-7	B 3.17-7
B 3.17-35	B 3.17-35
4-14	4-14
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3.14 CONTROL ROOM VENTILATION

3.14.1 Two Control Room Ventilation - Filtration (CRHVAC-Filtration) trains shall be OPERABLE.

<u>Applicability</u>

Specification 3.14.1 is applicable during: Operation above COLD SHUTDOWN, REFUELING OPERATIONS, Movement of irradiated fuel assemblies, and Movement of a fuel cask in or over the Spent Fuel Pool (SFP).

<u>Action</u>

- A. With one CRHVAC-Filtration train inoperable:
 - 1. Restore the CRHVAC-Filtration train to OPERABLE status within 7 days.
- B. With the Required Action and associated Completion Time of Action A not met during operation above COLD SHUTDOWN:
 - 1. Be in HOT SHUTDOWN within 6 hours, and
 - 2. Be in COLD SHUTDOWN within 36 hours.
- C. With the Required Action and associated Completion Time of Action A not met during REFUELING OPERATIONS, during movement of irradiated fuel assemblies, or during movement of a fuel cask in or over the SFP; immediately:
 - 1. Place OPERABLE CRHVAC-Filtration train in emergency mode, or
 - 2. Suspend REFUELING OPERATIONS, movement of irradiated fuel assemblies, and movement of a fuel cask in or over the SFP.
- D. With two CRHVAC-Filtration trains inoperable during REFUELING OPERATIONS, during movement of irradiated fuel assemblies, or during movement of a fuel cask in or over the SFP; immediately:
 - 1. Suspend REFUELING OPERATIONS, movement of irradiated fuel assemblies, and movement of a fuel cask in or over the SFP.
- E. With two CRHVAC-Filtration trains inoperable during operation above COLD SHUTDOWN:
 - 1. Enter Specification 3.0.3 immediately.

Amendment No. 81, 162, 186

3.14 <u>CONTROL ROOM VENTILATION</u>

3.14.2 Two Control Room Ventilation - Cooling (CRHVAC-Cooling) trains shall be OPERABLE.

<u>Applicability</u>

Specification 3.14.2 is applicable during: Operation above COLD SHUTDOWN, REFUELING OPERATIONS, Movement of irradiated fuel assemblies, and Movement of a fuel cask in or over the Spent Fuel Pool (SFP).

Action

- A. With one CRHVAC-Cooling train inoperable:
 - Restore the CRHVAC-Cooling train to OPERABLE status within 30 days.
- B. With the Required Action and associated Completion Time of Action A not met during operation above COLD SHUTDOWN:
 - 1. Be in HOT SHUTDOWN within 6 hours, and
 - 2. Be in COLD SHUTDOWN within 36 hours.
- C. With the Required Action and associated Completion Time of Action A not met during REFUELING OPERATIONS, during movement of irradiated fuel assemblies, or during movement of a fuel cask in or over the SFP; immediately:
 - 1. Place OPERABLE CRHVAC-Cooling train in operation, or
 - 2. Suspend REFUELING OPERATIONS, movement of irradiated fuel assemblies, and movement of a fuel cask in or over the SFP.
- D. With two CRHVAC-Cooling trains inoperable during REFUELING OPERATIONS, during movement of irradiated fuel assemblies, or during movement of a fuel cask in or over the SFP; immediately:
 - Suspend REFUELING OPERATIONS, movement of irradiated fuel assemblies, and movement of a fuel cask in or over the SFP.
- E. With two CRHVAC-Cooling trains inoperable during operation above COLD SHUTDOWN:
 - 1. Enter Specification 3.0.3 immediately.

3.15 Deleted

Amendment No. 81, 162, 171, 186

B 3.14.1 Control Room Ventilation Filtration System (CRHVAC - Filtration)

BASES

BACKGROUND

The CRHVAC - Filtration trains provide a protected environment from which operators can control the plant following an uncontrolled release of radioactivity.

The CRHVAC - Filtration trains consist of two independent, redundant trains that recirculate and filter the control room air. Each train consists of a prefilter, a heater, a High Efficiency Particulate Air (HEPA) filter, two banks of activated charcoal absorbers for removal of gaseous activity (principally iodine), a second HEPA filter, and a fan. Ductwork, valves or dampers, and instrumentation also form part of the system. A second bank of HEPA filters follows the absorber section to collect carbon fines, and to back up the main HEPA filter bank if it fails.

CRHVAC - Filtration is an emergency system, part of which may also operate during normal plant operations in the standby mode of operation. Upon receipt of a Containment High Pressure or Containment High Radiation Signal, normal air supply to the control room is isolated, and the stream of ventilation air is recirculated through the filter trains of the system. The prefilters remove any large particles in the air. Continuous operation of each train for at least 10 hours per month with the heaters on reduces moisture buildup on the HEPA filters and absorbers. The electric heater is important to the effectiveness of the charcoal absorbers.

Actuation of the system emergency mode of operation closes the normal unfiltered outside air intake and unfiltered exhaust dampers, opens the emergency air intake, and aligns the system for recirculation of control room air through the redundant trains of HEPA and charcoal filters. The emergency mode initiates pressurization and filtered ventilation of the air supply to the control room.

Outside air is filtered and then added to the air being recirculated from the control room. Pressurization of the control room prevents infiltration of unfiltered air from the surrounding areas of the building.

A single train will pressurize the control room to at least 0.125 inches water gauge relative to the south hallway outside the Control Room Viewing Gallery, and provides an air exchange rate in excess of 25% per hour. CRHVAC -Filtration operation in maintaining the control room habitable is discussed in the FSAR, Section 9.8 (Ref. 1).

PALISADES

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B 3.14-1

Amendment No: 186

Redundant supply and recirculation trains provide the required filtration should an excessive pressure drop develop across the other filter train. Normally open isolation dampers are arranged in series pairs so that the failure of one damper to shut will not result in a breach of isolation. CRHVAC - Filtration is designed in accordance with Seismic Category I requirements.

CRHVAC - Filtration is designed to maintain the control room environment for 30 days of continuous occupancy after a Design Basis Accident (DBA) without exceeding a 5 rem whole body dose or its equivalent to any part of the body.

APPLICABLE SAFETY ANALYSES

CRHVAC - Filtration components are arranged in redundant safety related ventilation trains. The location of components and ducting within the control room envelope ensures an adequate supply of filtered air to all areas requiring access.

CRHVAC - Filtration provides airborne radiological protection for the control room operators, as demonstrated by the control room accident dose analyses for the Design Basis Events discussed in FSAR Chapter 14 (Ref. 2).

The worst case single active failure of a component of a CRHVAC - Filtration train, assuming a loss of offsite power, does not impair the ability of the system to perform its design function.

The CRHVAC - Filtration trains meet Criterion 3 of 10 CFR 50.36(c)(2).

LCO

BASES

Two independent and redundant trains of CRHVAC - Filtration are required to be OPERABLE to ensure that at least one is available, assuming that a single failure disables the other train. Total system failure could result in a control room operator receiving a dose in excess of 5 rem in the event of a large radioactive release.

CRHVAC - Filtration is considered OPERABLE when the individual components necessary to control operator exposure are OPERABLE in both trains. A CRHVAC - Filtration train is considered OPERABLE when the associated:

a. Main Recirculation Fan and Emergency Filter Fan are OPERABLE;

b. HEPA filters and charcoal absorber are not excessively restricting flow, and are capable of performing their filtration functions; and

PALISADES

B 3.14-2

Amendment No: 186

c. Heater, ductwork, valves, and dampers are OPERABLE, and air circulation can be maintained. In addition, the control room boundary must be maintained, including the integrity of the walls, floors, ceilings, ductwork, and access doors.

APPLICABILITY

BASES

During operation above COLD SHUTDOWN CRHVAC - Filtration must be OPERABLE to limit operator radiation exposure during and following a DBA.

During REFUELING OPERATIONS, movement of irradiated fuel assemblies, and movement of a fuel cask in or over the Spent Fuel Pool (SFP), the CRHVAC -Filtration trains must be OPERABLE to cope with the release from a fuel handling accident.

ACTIONS

Action A.1.

With one CRHVAC - Filtration train inoperable, action must be taken to restore OPERABLE status within 7 days. In this Condition, the remaining OPERABLE CRHVAC - Filtration subsystem is adequate to perform control room radiation protection function. However, the overall reliability is reduced because a single failure in the OPERABLE CRHVAC - Filtration train could result in loss of CRHVAC - Filtration function. The 7 day Completion Time is based on the low probability of a DBA occurring during this time period, and the ability of the remaining train to provide the required capability.

Actions B.1 and B.2.

If the inoperable CRHVAC - Filtration train cannot be restored to OPERABLE status within the required Completion Time while operating above COLD SHUTDOWN, the plant must be placed in a condition that minimizes the accident risk. To achieve this status, the plant must be placed in at least HOT SHUTDOWN within 6 hours, and in COLD SHUTDOWN within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

PALISADES

Actions C.1 and C.2.

During REFUELING OPERATIONS, movement of irradiated fuel assemblies, or movement of a fuel cask in or over the SFP if Action A.1 cannot be completed within the required Completion Time, the OPERABLE CRHVAC - Filtration train must be immediately placed in the emergency mode of operation. This action ensures that the remaining train is OPERABLE, that no failures preventing automatic actuation will occur, and that any active failure will be readily detected.

An alternative Action is to immediately suspend activities that could result in a release of radioactivity that might require isolation of the control room. This places the plant in a condition that minimizes the accident risk. This does not preclude the movement of fuel assemblies or a fuel cask to a safe position.

Action D.1.

During REFUELING OPERATIONS, movement of irradiated fuel assemblies, or movement of a fuel cask in or over the SFP with two CRHVAC - Filtration trains inoperable, action must be taken immediately to suspend activities that could result in a release of radioactivity that might enter the control room. This places the plant in a condition that minimizes the accident risk. This does not preclude the movement of fuel assemblies or a fuel cask to a safe position.

Action E.1.

If both CRHVAC - Filtration trains are inoperable during operation above COLD SHUTDOWN, CRHVAC - Filtration may not be capable of performing the intended function and the plant is in a condition outside the accident analyses. Therefore, LCO 3.0.3 must be entered immediately.

SURVEILLANCE

The surveillance requirements associated with LCO 3.14.1 are located in Section 4.2, Table 4.2.3.

REFERENCES

- 1. FSAR, Section 9.8
- 2. FSAR, Chapter 14
- 3. Regulatory Guide 1.52, (Rev. 2)
- 4. NUREG-0800, Section 6.4, Rev. 2, July 1981

PALISADES

B.3.14-4

Amendment No: 186

BASES

3.14 CONTROL ROOM VENTILATION

B 3.14.2 Control Room Ventilation Cooling System (CRHVAC - Cooling)

BASES

BACKGROUND

CRHVAC - Cooling provides temperature control for the control room following isolation of the control room. CRHVAC - Cooling consists of two independent, redundant trains that provide cooling and heating of recirculated control room air. Each train consists of heating coils, cooling coils, instrumentation, and controls to provide for control room temperature control. CRHVAC -Cooling is a subsystem providing air temperature control for the control room.

CRHVAC - Cooling is an emergency system, parts of which may also operate during normal plant operations. A single train will provide the required temperature control to maintain the control room at 90°F or below during normal operation and following an accident. The CRHVAC - Cooling operation to maintain the control room temperature is discussed in Reference 1.

The control room ventilation emergency mode of operation is actuated either by a containment high-radiation signal or a containment high-pressure signal, or manually from the control room. During emergency mode operation, the air handling units and the charcoal filter units of both Train A and Train B operate. The CRHVAC -Cooling refrigerant Condensing Units VC-10 and VC-11 shut down and are manually restarted by the operator when their operation is required for control room cooling. In addition, since immediate operation of the CRHVAC - Cooling system is not necessary, other manual operations may be required to initiate control room cooling, depending on the configuration of the system upon initiation of the emergency mode signal.

APPLICABLE SAFETY ANALYSES

The design basis of CRHVAC - Cooling is to maintain temperature of the control room environment throughout 30 days of continuous occupancy.

The CRHVAC - Cooling components are arranged in redundant safety related trains. During normal and emergency operation, CRHVAC - Cooling maintains the temperature at 90°F or below (as required by LCO 3.17.1). A single active failure of a component of a CRHVAC - Cooling train, coincident with a loss of offsite power, does not impair the ability of the system to perform its design function. Redundant detectors and controls are provided for control room temperature control. CRHVAC - Cooling is designed in accordance with Seismic Category I requirements. CRHVAC - Cooling is capable of removing sensible and latent heat loads from the control room, considering equipment heat loads and personnel occupancy requirements, to ensure equipment OPERABILITY.

The CRHVAC - Cooling trains meet Criterion 3 of 10 CFR 50.36(c)(2).

PALISADES

B 3.14-5

Amendment No: 186

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Two independent and redundant trains of CRHVAC - Cooling are required to be OPERABLE to ensure that at least one train is available, assuming a single failure disables the other train. Total system failure could result in the equipment operating temperature exceeding limits in the event of an accident.

CRHVAC - Cooling is considered OPERABLE when the individual components that are necessary to maintain the control room temperature are OPERABLE in both trains. These components include the condensing units, fans, and associated temperature control instrumentation. In addition, CRHVAC - Cooling must be OPERABLE to the extent that air circulation can be maintained.

APPLICABILITY

During REFUELING OPERATIONS, operation above COLD SHUTDOWN, movement of irradiated fuel assemblies, or during movement of a fuel cask in or over the SFP the CRHVAC - Cooling trains must be OPERABLE to ensure that the control room temperature will not exceed equipment OPERABILITY requirements following isolation of the control room.

ACTIONS

Action A.1.

With one CRHVAC - Cooling train inoperable, action must be taken to restore OPERABLE status within 30 days. In this Condition, the remaining OPERABLE CRHVAC - Cooling train is adequate to maintain the control room temperature within limits. The 30 day Completion Time is reasonable, based on the low probability of an event occurring requiring control room isolation, and consideration that the remaining train can provide the required capabilities.

Actions B.1 and B.2.

During operation above COLD SHUTDOWN, when Action A.1 cannot be completed within the required Completion Time, the plant must be placed in a condition that minimizes the accident risk. To achieve this status, the plant must be placed in at least HOT SHUTDOWN within 6 hours, and in COLD SHUTDOWN within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

PALISADES

Amendment No: 186

Actions C.1 and C.2.

During REFUELING OPERATIONS, movement of irradiated fuel assemblies, or movement of a fuel cask in or over the SFP when Action A.1 cannot be completed within the required Completion Time, the OPERABLE CRHVAC - Cooling train must be placed in operation immediately. This action ensures that the remaining train is OPERABLE, that no failures preventing automatic actuation will occur, and that any active failure will be readily detected.

An alternative Action is to immediately suspend activities that could result in a release of radioactivity that might require isolation of the control room. This places the plant in a condition that minimizes the accident risk. This does not preclude the movement of fuel assemblies or a fuel cask to a safe position.

Action D.1.

During REFUELING OPERATIONS, movement of irradiated fuel assemblies, or movement of a fuel cask in or over the SFP, with two CRHVAC - Cooling trains inoperable, action must be taken immediately to suspend activities that could result in a release of radioactivity that might require isolation of the control room. This places the plant in a condition that minimizes the accident risk. This does not preclude the movement of fuel assemblies or a fuel cask to a safe position.

Action E.1.

If both CRHVAC - Cooling trains are inoperable while operating above COLD SHUTDOWN, CRHVAC - Cooling may not be capable of performing the intended function and the plant is in a condition outside the accident analysis. Therefore, LCO 3.0.3 must be entered immediately.

SURVEILLANCE

The surveillance requirements associated with LCO 3.14.2 are located in Section 4.2, Table 4.2.3.

REFERENCE

1. FSAR, Section 9.8

PALISADES

B 3.14-7

Specification

3.17.1 Four Reactor Protective System (RPS) trip unit channels and the associated instrumentation for the functions listed in Table 3.17.1, and 6 matrix logic channels and 4 initiation logic channels shall be OPERABLE except as allowed by the permissible operational bypasses column.

Applicability

Specification 3.17.1 applies when there is fuel in the reactor, more than one CONTROL ROD is capable of being withdrawn, and the PCS is less than REFUELING BORON CONCENTRATION.

Action

- 3.17.1.1 With one Manual Reactor Trip channel inoperable:
 - a) Restore the channel to OPERABLE status prior to the next reactor startup.
- 3.17.1.2 With one RPS trip unit or associated instrument channel inoperable for one or more functions:
 - a)* Place the affected trip unit in the tripped condition within 7 days.
- 3.17.1.3 With two RPS trip units or associated instrument channels inoperable for one or more functions:
 - a) Place one inoperable trip unit in the tripped condition within 1 hour, and
 - b) If two Power Range Nuclear Instrument channels are inoperable, limit power to \leq 70% RATED POWER within 2 hours, and
 - c)* Restore one RPS trip unit and associated instrument channel to OPERABLE status within 7 days.
- 3.17.1.4 With one RPS Matrix Logic channel inoperable:
 - a) Restore the channel to OPERABLE status within 48 hours.
- 3.17.1.5 With one RPS Initiation Logic channel inoperable:
 - a) De-energize the affected clutch power supplies within 1 hour.
- 3.17.1.6 If any action required by 3.17.1 is not met AND the associated completion time has expired, or if the number of OPERABLE channels is less than specified in the "Minimum OPERABLE Channels", or if Control Room Temperature exceeds 90°F:
 - a) The reactor shall be placed in HOT SHUTDOWN within 12 hours, and
 - b) The reactor shall be placed in a condition where the affected equipment is not required, within 48 hours.
 - These Actions are not required for inoperable High Startup Rate or Loss of Load instrument channels.

<u>Basis:</u> RPS Description (continued)

<u>RPS Trip Units:</u> The eleven sets of RPS trip units are the bistable amplifiers which monitor the analog input functions for the RPS, and the Auxiliary Trip Units which replace the bistables for functions receiving a binary input signal. Most RPS trips monitor an analog signal, such as Steam Generator Level, and initiate a trip when the signal reaches a predetermined setpoint. Containment High Pressure and Loss of Load trips are actuated by pressure switches outside the RPS; High Startup Rate trip is actuated by bistables in the Wide Range Nuclear Instrumentation (NI) drawers; High Power trip is actuated by a signal from the Thermal Margin Monitor. These four trips use relays, called Auxiliary Trip Units, in place of the RPS bistables. Each trip unit actuates three output relays, one in each of the associated matrix logic channels. Channel "A" trip units have output contacts in matrix logic channels A-B, A-C, and A-D; channel "B" trip units, in A-B, B-C, and B-D; and so on.

<u>RPS Matrix Logic:</u> The six RPS Matrix Logic channels are made up of the output contacts from individual trip units, testing and trip channel bypass contacts, coils of four Matrix Logic Relays, two power supplies, and various indicating lights. The contacts of the trip unit output relays are arranged to achieve the 2 out of 4 trip logic. Each matrix has four output relays; one with contacts in each Initiation Logic channel.

<u>RPS Initiation Logic:</u> The four RPS Initiation Logic channels are made up of a series arrangement of one contact from an output relay in each of the six matrix logic channels, contacts from the CO-1 manual trip button, contacts from the associated "K-Relays", and one "M-Contactor". The M-Contactor controls power to two of the four clutch power supplies.

<u>RPS Design Temperature:</u> The original reactor protective system instrumentation was designed for and tested at 120°F. The Thermal Margin Monitor, added later, was designed for 131°F. To assure that the TMM cabinet internal air temperature does not exceed its design limit, Control Room Temperature must be maintained at 90°F or below (Ref. 13 and 14).

Basis: Applicability 3.17.1

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The Reactor Protective System is only required to be OPERABLE when there is fuel in reactor vessel, the PCS is less than REFUELING BORON CONCENTRATION, and more than one control rod is capable of being withdrawn.

If there is no fuel in the reactor vessel a nuclear reaction cannot occur and the RPS function is not necessary.

If the PCS is at REFUELING BORON CONCENTRATION (≥ 1720 ppm and subcritical by $\geq 5\%$ with all control rods removed from the core) there is no need for automatic control rod insertion.

If no more than one control rod can be withdrawn the RPS function is already fulfilled (the safety analyses and the SHUTDOWN MARGIN definition both use the assumption that the highest worth withdrawn control rod will fail to insert on a trip) and the safety analyses assumptions and SHUTDOWN MARGIN requirements will be met without the RPS trip function.

B 3.17-5

Basis: Action Statements 3.17.1 (continued)

These actions may be taken separately for pairs of inoperable channels of different functions. Each pair of inoperable channels would have its own completion times.

Action 3.17.1.4 - <u>One RPS Matrix Logic channel inoperable</u> - Failures of matrix logic channels are infrequent since they are composed of only contact pairs, indicating lights, and output relays. There is one Matrix Logic channel for each two-out-of-four combination such as A-B, A-C, A-D, B-C, etc. The failure of any single Matrix Logic channel could, at worst, defeat only a single two-out-of-four trip combination, and would not cause a loss of trip capability. Should a failure occur, 48 hours are allowed for repair.

Action 3.17.1.5 - <u>One RPS Initiation Logic channel inoperable</u> - If a failure of an Initiation Logic channel should occur, it would most likely de-energize the associated clutch power supplies. Such a failure would not cause a reactor trip because the other two clutch power supplies would maintain the clutches energized. If a failure, such as a contact pair failing to open (which does not de-energize the associated clutch power supplies) did occur, the RPS Initiation logic trip capability could only be failed by a similar failure of the other initiation logic channel associated with the same power supplies. A single Initiation Logic failure, therefore, cannot cause a loss of trip capability. The associated power supplies must be de-energized within one hour.

Action 3.17.1.6 - Required action AND associated completion time not met - If the required action cannot be met within the associated completion time, or if the number of OPERABLE channels is less than allowed, or if the control room temperature exceeds 90°F, the plant must be placed in a condition where the inoperable equipment is not required. Twelve hours are allowed to bring the plant to HOT SHUTDOWN and 48 hours to reach conditions where the affected equipment is not required, to avoid unusual plant transients. Both the 12 and the 48 hour time periods start when it is discovered that Action 3.17.1.6 is applicable.

Basis: Table 3.17.1

1. - <u>Manual Trip</u> - The Manual Trip is provided to allow the operator to quickly shut down the reactor if such action is deemed necessary. The safety analyses do not assume the use of the manual trip feature. Two separate manual trip channels are provided. One channel duplicates the function of the automatic trips, de-energizing contactors which interrupt power to the clutch power supplies. The second manual trip channel trips the circuit breakers which supply power to the clutch power supplies by de-energizing their undervoltage coils. The manual trip function is required to be OPERABLE under all conditions which require the RPS to be OPERABLE.

2. - <u>Variable High Power Trip</u> (VHPT) - The VHPT provides reactor core protection against reactivity excursions. The safety analyses assume that this trip is OPERABLE to terminate excessive reactivity insertions during power operation and while shutdown.

B 3.17-7

References for 3.17 Basis

- (1) Updated FSAR, Section 7.2.7.
- (2) Updated FSAR, Section 7.2.5.2
- (3) Updated FSAR, Figures 7-1 and 7-2
- (4) P&ID SIS Logic Diagram E-17, Sh 3
- (5) P&ID SIS Logic Diagram E-17, Sh 4
- (6) P&ID RAS Logic Diagram E-17, Sh 5
- (7) Updated FSAR, Figure 7-37
- (8) P&ID CHP Logic Diagram E-17, Sh 6
- (9) P&ID CHR Logic Diagram E-17, Sh 7
- (10) P&ID SGLP Logic Diagram E-17, Sh 20
- (11) Updated FSAR, Figure 7-56
- (12) Service Water Functional Description, FD-M-111
- (13) CPCo letter to NRC, December 23, 1988, Resolution of Reactor Protective System Audit Concerns - Temperature Documentation
- (14) NRC letter to CPCo, March 28, 1990, Thermal Margin Monitor (TMM) Audit Follow-up

EQUIPMENT SAMPLING AND TESTS

<u>Table 4.2.3</u>

VENTILATION SYSTEM TESTS

The Control Room Ventilation and Isolation System and the Fuel Storage Area HEPA/Charcoal Exhaust System shall be demonstrated to be OPERABLE by the following tests:

- 1. Performing required Control Room Ventilation and Fuel Storage Area filter testing in accordance with the Ventilation Filter Testing Program.
- 2. At least once per refueling cycle by:
 - a. Verifying that on a containment high-pressure and highradiation test signal, the Control Room Ventilation system automatically switches into the emergency mode of operation with flow through the HEPA filter and charcoal adsorber bank.
 - b. Verifying that the Control Room Ventilation system maintains the Control Room at a positive pressure ≥ 1/8 inch WG relative to the outside atmosphere during system emergency mode operation.
 - c. Verifying that the Fuel Pool Ventilation System is OPERABLE by initiating flow through the HEPA filter and charcoal adsorbers from the control room.

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Amendment No. 81, 162, 174, 186

4.17 INSTRUMENTATION SYSTEMS TESTS

Table 4.17.1

Instrumentation Surveillance Requirements for Reactor Protective System

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	<u>Functional Unit</u>	CH 	IANNEL CHECK	CH/ FUN	ANNEL CTIONAL TEST	CI <u>CAL</u>	HANNEL IBRATION
1.	Manual Trip		NA		(a)	•	NA
2.	Variable High Power	12	hours	31	days	(b,	c, & d)
3.	High Start Up Rate	12	hours		(a)	18	months ^(e)
4.	Thermal Margin/	12	hours	31	days	18	months
5.	High Pressurizer Pressure	12	hours	31	days	18	months
6.	Low PCS Flow	12	hours	31	days	18	months
7.	Loss of Load		NA		(a)	18	months
8.	Low "A" SG Level	12	hours	31	days	18	months
9.	Low "B" SG Level	12	hours	31	days	18	months
10.	Low "A" SG Pressure	12	hours	31	days	18	months
11.	Low "B" SG Pressure	12	hours	31	days	18	months
12.	High Containment Pressure		NA	31	days	18	months
13.	RPS Matrix Logic		NA	31	days		NA
14.	RPS Initiation Logic		NA	31	days		NA

15. Thermal Margin Monitor; Verify constants each 92 days.

| 16. Thermal Margin Monitor: Verify Control Room Temperature \leq 90°F each 12 hours.

(a) Once within 7 days prior to each reactor startup.

- (b) Calibrate with Heat Balance each 24 hours, when > 15% RATED POWER.
- (c) Calibrate Excores channels with test signal each 31 days.
- (d) CHANNEL CALIBRATION each 18 months.

(e) Include verification of automatic Zero Power Mode Bypass removal.

Amendment No. 118, 130, 136, 150, 162, 164, 171, 186



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 186 TO FACILITY OPERATING LICENSE NO. DPR-20

CONSUMERS ENERGY COMPANY

PALISADES PLANT

DOCKET NO. 50-255

1.0 INTRODUCTION

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By letter dated September 3, 1997, the Consumers Energy Company (the licensee) requested an amendment to the Technical Specifications (TS) appended to Facility Operating License No. DPR-20 for the Palisades Plant. The proposed amendment would revise TS 3.14, Control Room Ventilation, to reflect the capabilities of the installed control room ventilation equipment and to emulate the requirements specified in NUREG-1432, "Standard Technical Specifications, Combustion Engineering Plants" (STS).

As proposed by the licensee in its submittals (December 19, 1980, January 4, 1982, and October 19, 1982) in response to the NRC's Generic Letter 83-37 (GL), specifically, NUREG-0737, Item III.D.3.4, relating to control room habitability requirements, the licensee replaced the original control room ventilation system with two redundant emergency air cleanup systems during the 1983/1984 refueling outage. The staff's safety evaluation dated April 29, 1983, had found the licensee's proposed modification of the control room ventilation system acceptable since it met the requirements of NUREG-0737, Item III.D.3.4. Each of the two redundant systems consists of one air handling unit which can supply air up to 16,500 cubic feet per minute, one condensing unit to supply the required chilling capacity, and one HEPA [high efficiency particulate air filter]/charcoal filter unit capable of supplying air to support the habitability requirements of the control room and the technical support center during an accident condition.

By letter dated November 19, 1984, and supplemented by letters dated November 21, 1985, and February 28, 1986, the licensee had requested an amendment to revise TS 3.14, to reflect the capabilities of the newly installed control room ventilation equipment. Subsequently, however, by letter dated January 24, 1989, the licensee requested withdrawal of the November 19, 1984, amendment request, and indicated that the proposed changes would be incorporated into the "Restructured (or Improved) Technical Specifications" to be submitted at a later date. In the interim, the licensee committed to implement and maintain the proposed changes under its administrative controls (i.e., Palisades Operating Requirements Manual).

2.0 EVALUATION

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The proposed amendment includes the following changes:

- (a) TS Action Statement 3.14a is replaced by a revised condition description for TS Action Statement 3.17.1.6 in the instrumentation systems section. Also, the maximum control room temperature at which a shutdown must be initiated is revised from 120 °F to 90 °F, and a time limit for reaching the hot shutdown condition is specified.
- (b) TS 3.14b is replaced with two limiting conditions for operation (LCOs), 3.14.1 and 3.14.2, addressing, respectively, the filtration and cooling functions of the CRHVAC [control room heating, ventilation, and air conditioning] system. These proposed LCOs emulate the STS for control room ventilation.
- (c) TS Table 4.2.3 surveillance requirement (SR) number 3, verification of control room temperature, is moved to SR Table 4.17.1, for the reactor protection system (RPS), and
- (d) other administrative changes.

The licensee classified each change as either administrative or more restrictive. An administrative change is editorial in nature, only involves movement of requirements within the TS without affecting their technical content, or clarifies existing TS requirements. A more restrictive change adds new requirements, or revises existing requirements resulting in more conservative or additional operational restrictions.

2.1 Revision of TS 3.14a

TS 3.14a currently states:

If the control room air temperature reaches 120 °F, immediate action shall be taken to reduce this temperature or to place the reactor in a hot shutdown condition.

TS 3.17.1.6 currently states:

If any action required by 3.17.1 is not met AND the associated completion time has expired, or if the number of OPERABLE channels is less than specified in the "Minimum OPERABLE Channels":

- a) The reactor shall be placed in HOT SHUTDOWN within 12 hours, and
- b) The reactor shall be placed in a condition where the affected equipment is not required, within 48 hours.

The licensee proposed to incorporate the requirements of TS 3.14a into TS 3.17.1.6, such that it reads:

If any action required by 3.17.1 is not met AND the associated completion time has expired, or if the number of OPERABLE channels is less than specified in the "Minimum OPERABLE Channels", or if Control Room Temperature exceeds 90°F:

a) The reactor shall be placed in HOT SHUTDOWN within 12 hours, and

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b) The reactor shall be placed in a condition where the affected equipment is not required, within 48 hours.

The licensee stated that the proposed change would reduce the maximum control room temperature at which a shutdown must be initiated from 120 °F to 90 °F. The purpose of this change is threefold: (1) the original equipment, including the RPS instrumentation, was designed and tested at 120 °F. The thermal margin monitor (TMM), which was added later, was designed for 131 °F, but control room temperature must be maintained at 90 °F or below to assure that the TMM cabinet internal air temperature does not exceed its design limit; (2) the corresponding surveillance requirement (TS Table 4.2.3, Ventilation System Test, Item Number 3) was revised in Amendment Number 174 issued in October 31, 1996, to read: "Verifying that the Control Room temperature is less than or equal to 90 °F; once per 12 hours." Thus, the proposed change to TS 3.14a and TS 3.17.1.6 would make the control room temperature limit consistent with TS Table 4.2.3; and (3) the proposed change satisfies a licensee commitment, as documented in a licensee letter dated December 7, 1990, to incorporate the new temperature limit of 90 °F into the "Restructured (or Improved) Technical Specifications."

The proposed change would also provide the appropriate action statement when the control room temperature is between 90 °F and 120 °F, since TS Table 4.2.3 does not provide any action statements and TS 3.14a does not require any action until the temperature reaches 120 °F. In addition, the proposed change would add a time limit for reaching Hot Shutdown when the maximum temperature is exceeded, rather than specifying that "immediate action shall be taken . . . to place the reactor in a hot shutdown condition," as currently stated in TS 3.14.a. The existing TS does not specify a time limit for completing the required action to place the plant in Hot Shutdown. The time limit proposed (12 hours) is consistent with other existing TS action statements requiring the plant to be placed in Hot Shutdown. The alternate allowance of existing TS 3.0.2 which states, in part, "If the limiting condition for operation is restored prior to expiration of the specified time intervals, completion of the action requirements is not required." Therefore, this alternative need not be included in the revised TS.

In addition to retaining the provision of placing the plant in Hot Shutdown when the maximumallowed control room temperature is exceeded, the proposed change would further specify that the reactor should be placed in a condition where the affected equipment is not required. This is more conservative and appropriate since, depending on plant conditions, the RPS and TMM may still be relied upon in Hot Shutdown to avoid unusual plant transients while the TMM could be considered inoperable as a result of high temperature in the control room.

By incorporating the requirements of TS 3.14a into TS 3.17.1.6, the proposed change would more closely relate the maximum allowed control room temperature and its associated action

with the TS requirements for the RPS, since the operability of TMM directly affects the operability of the RPS system.

The Bases for TS 3.17.1 would also be revised to include information regarding the additional requirement.

The staff has determined that the proposed changes, as described above, constitutes more restrictive requirements that provide additional assurance that equipment conforms to the plant design basis and will operate reliably when called upon; therefore, the staff finds the proposed changes acceptable.

2.2 Revision of TS 3.14b

The licensee proposed to replace TS 3.14b with two LCOs (and associated Actions), 3.14.1 and 3.14.2. These proposed LCOs emulate the STS LCOs 3.7.11 and 3.7.12, for control room ventilation. The SRs for control room ventilation, with the exception of periodic verification of control room temperature as discussed in Section 2.3 of this safety evaluation, remain in Table 4.2.3.

The existing LCO (TS 3.14b) requires only one system, consisting of two fans and a filter system, reflecting the original design configuration for the purpose of control room ventilation. Proposed TS 3.14.1 requires two redundant trains for control room air filtration; each train consisting of a pre-filter, a heater, a high efficiency particulate air (HEPA) filter, two banks of activated charcoal adsorbers for removal of gaseous activity (principally iodine), a second HEPA filter, and a fan. In addition, proposed TS 3.14.2 requires two redundant cooling trains, each consisting of heating coils, cooling coils, instrumentation, and controls to provide for control room temperature control. The proposed changes reflect the capabilities of the modified control room ventilation equipment and also emulate the requirements specified in STS for control room ventilation.

The current TS 3.14b has no explicit applicability; existing Actions imply the applicability is "above Cold Shutdown." The proposed TS are explicitly stated to be applicable above Cold Shutdown, and are also explicitly stated to be applicable during refueling operations, movement of irradiated fuel assemblies, and movement of a fuel cask in or over the spent fuel pool. These are the conditions under which the accident analyses assume functioning of the control room ventilation system.

Existing actions allow both fans (i.e., both trains) to be inoperable for 3½ days; if restoration is not achieved in that time, the plant is required to be in Cold Shutdown in the next 36 hours (i.e., a total allowed outage time (AOT) of less than 120 hours). The required actions in each proposed TS (TS 3.14.1 and TS 3.14.2) require immediate entry into TS 3.0.3, consistent with the STS.(i.e., total AOT of less than 37 hours), for both trains being inoperable during operation above Cold Shutdown.

In addition, required Actions emulating those in the STS are provided in each proposed TS (TS 3.14.1 and TS 3.14.2) for conditions where (1) one required train is inoperable, and (2) two trains are inoperable during Cold Shutdown or under other applicable conditions.

The Basis for TS 3.14.1 and TS 3.14.2 would be appended to include information regarding the proposed changes.

The proposed changes provide requirements that are either new, or more conservative than existing TS requirements. These changes represent additional restrictions on plant operation that enhance safety and are consistent with the STS. Therefore, the staff finds the proposed changes, as described above, acceptable.

2.3 Administrative Changes

The licensee proposed to move TS Table 4.2.3 SR number 3, verification of control room temperature, to the RPS SR Table 4.17.1. The remaining SRs in Table 4.2.3 are not affected. This change does not alter any TS requirements and was therefore classified as administrative by the licensee.

The licensee also proposed to revise Table of Contents page ii to show the proposed new sections of TS 3.14. This change does not alter any TS requirements and was classified as administrative by the licensee.

In addition, the licensee proposed to delete the "Applicability" and "Objective" paragraphs of the existing TS 3.14 and place equivalent information in the Bases sections. The licensee stated that these sections do not contain any operating limitations or restrictions; they provide only background information and would be replaced with extensive bases discussions. This change does not alter any TS requirements and was therefore classified as administrative by the licensee.

These changes are editorial in nature or involve the reorganization or reformatting of TS requirements without affecting technical content or operational restrictions. The proposed changes do not result in any substantive change in operating requirements or the intent of these requirements, and are consistent with the Commission's regulations; therefore, the staff finds the proposed changes acceptable.

3.0 STATE CONSULTATION

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

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The staff has determined that the amendment involves 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 amendment involves no significant hazards consideration and there has been no public comment on such finding (64 *FR* 14281). Accordingly, the amendment meets 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 amendment.

5.0 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 amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: T. Kim R. Schaaf

Date: May 6, 1999