



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 13, 2013

Mr. C. R. Pierce
Regulatory Affairs Director
Southern Nuclear Operating Company, Inc.
P.O. Box 1295, Bin 038
Birmingham, AL 35201-1295

SUBJECT: EDWIN I. HATCH NUCLEAR PLANT, JOSEPH M. FARLEY NUCLEAR PLANT,
AND VOGTLE ELECTRIC GENERATING PLANT-REQUEST FOR USE OF
DELTA PROTECTION MURUROA V4F1R SUPPLIED AIR SUITS AND THE
MURUROA BLU SUIT SYSTEMS (TAC NOS. MF1851, MF1852, MF1853,
MF1854, MF1855 and MF1856)

Dear Mr. Pierce:

By letter dated May 16, 2013, as supplemented by letter dated September 17, 2013, (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML13137A132 and ML13262A432), pursuant to Part 20 of Title 10 of the *Code of Federal Regulations* (10 CFR), Section 1703(b), Southern Nuclear Operating Company (SNC) requested the U.S. Nuclear Regulatory Commission (NRC) authorization for use of equipment that has not been tested or certified by the National Institute for Occupational Safety and Health (NIOSH), for Hatch, Units 1 and 2, Farley, Units 1 and 2, and Vogtle, Units 1 and 2. This request includes two models (the V4F1R and BLU) of the MURUROA protective suit systems. Pursuant to 10 CFR 20, part 1705, SNC also requested an Assigned Protection Factor (APF) of 5000 associated with the use of the MURUROA V4F1R and an APF of 2000 associated with the use of the MURUROA BLU suits.

Enclosed is the staff's related safety evaluation that concludes that authorization of your requests (a) for the use of the MURUROA V4F1R supplied air suits with an APF of 5000 and (b) for the use of the MURUROA BLU air purifying suits with an APF of 2000, are within the provision of 10 CFR Part 20, and therefore, are approved.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Pascarelli".

Robert J. Pascarelli, Chief
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-321, 50-366, 50-348, 50-364
50-424, and 50-425

Enclosure: Safety Evaluation

cc w/encl: Distribution via Listserv



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO THE REQUEST FOR USE OF
DELTA PROTECTION MURUROA V4F1 R SUPPLIED AIR SUITS WITH AN ASSIGNED
PROTECTION FACTOR OF 5000 AND BLU SELF-SUPPLIED SUITS WITH AN
ASSIGNED PROTECTION FACTOR OF 2000
SOUTHERN COMPANY
EDWIN I. HATCH NUCLEAR PLANT
JOSEPH M. FARLEY NUCLEAR PLANT
VOGTLE ELECTRIC GENERATING PLANT

1.0 INTRODUCTION

By letter dated May 16, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13137A132), as supplemented by letter dated September 17, 2013 (ADAMS Accession No. ML13262A432), pursuant to Part 20 of Title 10 of the *Code of Federal Regulations* (10 CFR Part 20), Section 1703(b), Southern Nuclear Operating Company (SNC) requested the U.S. Nuclear Regulatory Commission (NRC) authorization for use of equipment that has not been tested or certified by the National Institute for Occupational Safety and Health (NIOSH), for Hatch, Units 1 and 2, Farley, Units 1 and 2, and Vogtle, Units 1 and 2. This request includes two models (the V4F1 R, and BLU) of the MURUROA protective suit systems. Pursuant to 10 CFR Part 20, Section 1705, the May 16, SNC letter requested an assigned protection factor (APF) of 5000 for the MURUROA V4F1 R suits, and an APF of 2000 for the MURUROA BLU suits which exceeds the APFs specified in Appendix A of 10 CFR Part 20. As defined in 10 CFR 20.1003, an APF denotes the expected level of protection that would be provided to a trained respirator user by a properly functioning respirator.

The MURUROA suit systems were developed and manufactured by Delta Protection, which was owned by Bacou-Dalloz (a French protective equipment company). In 2007, Bacou-Dalloz changed its name to Sperian Protection. Sperian has subsequently been acquired by Honeywell Safety Products, Inc. In their September 17, 2013, response to the staff's request for additional information, SNC stated that Honeywell Safety Products, Inc. has informed them that the change in ownership of Delta Protection does not impact the manufacture, form, fit, or function of the MURUROA V4F1 R or BLU suits. Therefore, the European Union (EU) certification test results are still valid.

2.0 REGULATORY EVALUATION

There are several different configurations of the MURUROA suit. These include the V4F1, MTH2, V4F1 R, and the BLU models. The safety and quality of each of these configurations have been certified by one or more certifying bodies in the EU. The MURUROA V4F1 R, V4F1, and MTH2 are all supplied air protective suit systems where the breathing air for the wearer is supplied through hose connection to a stationary air manifold. The MURUROA V4F1 R, although similar to the V4F1 and MTH2 models, has a redesigned air inlet regulator that allows its use at lower supplied air pressures.

SNC has previously obtained NRC approval (Letter dated June 30, 2009 as ADAMS Accession No. ML091660131) to use the MURUROA V4F1 and MTH2 suits with an APF of 5000.

The MURUROA BLU model is a powered air purifying (also known as self-supplied) fully enclosed protective suit system. The BLU model has a high efficiency filter and blower integral to the suit that filters ambient air and distributes it to the wearer through an internal manifold (a design feature of the MURUROA suits). The NRC has approved the design of the MURUROA BLU model suit in its Safety Evaluation (SE) for Topical Report (TR) MURUBLU05NP (ADAMS Accession No. ML060950499).

The following regulatory requirements and guidance documents were used for the NRC staff's evaluation:

1. 10 CFR Part 20, Subpart H; 10 CFR Part 19, Section 19.12, "Instruction to workers,"
2. Regulatory Guide 8.15, Revision 1, "Acceptable Programs for Respiratory Protection,"
3. NUREG/CR-0041, Revision 1, "Manual of Respiratory Protection Against Airborne Radioactive Material,"
4. 42 CFR Part 84, NIOSH testing and certification regulations,
5. Los Alamos National Laboratory Report LA-101560MS, "Acceptance Testing Procedures for Air-Line Supplied Air Suits;" and
6. American National Standards Institute standard ANSI Z88.2-1992, "American National Standard Practices for Regulatory Protection."

The following paragraphs discuss the relevant details:

10 CFR Part 20, "Standards for Protection Against Radiation," Subpart H, "Respiratory Protection and Controls To Restrict Internal Exposure in Restricted Areas," provides for the use of respiratory protection equipment (respirators) for protection against airborne radioactive materials.

10 CFR 20.1703(a) requires the use of respiratory equipment that has been tested and certified by NIOSH, when used to limit the worker intake of radioactive materials. Authorization by the NRC to use respiratory equipment that has not been tested and certified by NIOSH is provided for in 10 CFR 20.1703(b). Section 20.1703(b) requires the licensees to demonstrate by

appropriate testing that a respirator is capable of safely providing the necessary level of user protection under the anticipated conditions of use. However, currently NIOSH has no testing and certification schedules for air-supplied, or self-supplied suits.

Paragraph 10 CFR 20.1703(f) requires that, when an air-supplied respirator (such as a full suit or hood) is used that could be difficult for a user to remove without assistance, standby rescuers be present to render suit egress assistance to the user in the case of a sudden, unexpected loss of air supply (or other emergencies). Without this prompt assistance, a user could be asphyxiated in a short period of time (less than one minute).

Part 20 of 10 CFR, Appendix A, "Assigned Protection Factors for Respirators," Item I, "Air Purifying Respirators [Particulate only]," does not provide an APF for powered air purifying respiratory protective suits such as the MURUROA BLU.

Part 20 of 10 CFR, Appendix A, "Assigned Protection Factors for Respirators," Item II, "Atmosphere Supplying Respirators [particulate, gases, and vapors]," does not provide an APF for atmosphere supplying respirator (particulate, gases, and vapors) suits in a continuous-flow operating mode such as the MURUROA V4F1 R. Instead, 10 CFR Part 20, Appendix A, Footnote (g), allows the use of air-supplied suits, but allows no credit to be taken for protection provided by the non-NIOSH approved units (unless approval is granted under 10 CFR 20.1703(b)). It states, "[n]o NIOSH approval schedule is currently available for atmosphere supplying suits. This equipment may be used in an acceptable respiratory protection program as long as all the other minimum program requirements, with the exception of fit testing, are met (i.e., [10 CFR] 20.1703)."

Section 10 CFR 20.1705, "Application for use of higher assigned protection factors," states that a licensee shall obtain NRC authorization before using assigned protection factors in excess of those specified in Appendix A to 10 CFR Part 20. Since Appendix A does not provide an APF for atmosphere supplying respirator (air-line respirator) suits in a continuous-flow operating mode, the licensee must obtain NRC approval to take credit for an APF for this model of the respiratory protection equipment.

NUREG/CR-0041 notes that NIOSH does not approve of air-supplied suits, but also notes that, in certain work environments, air-supplied suits may be the best respiratory application when factoring in heat stress, minimizing skin contamination, and maintaining worker doses as low as is reasonably achievable (ALARA).

3.0 TECHNICAL EVALUATION

3.1 MURUROA V4F1 R

Pursuant to 10 CFR 20.1703(b), the SNC requested NRC authorization for use of the MURUROA V4F1 R Suit that has not been tested or certified by NIOSH. Pursuant to 10 CFR 20.1705, the SNC also requested an APF of 5000 for this equipment, which exceeds those specified in Appendix A of 10 CFR Part 20. The SNC's application, as supplemented, also included the following supporting information:

- 1) Data Sheet for Delta Protection, MURUROA V4F1 R Model Suit providing General Description,
- 2) European Standard EN 1073-1; 1998 for Ventilated Protective Clothing,

- 3) Certificate No. 0073/197/162/02/01/0005 for the MURUROA V4F1 R Suit,
- 4) Certificate No. 0073/197/162/12/97/0028 for the test results for MURUROA V4F1 Model Suit, and
- 5) Donning and Removal Instructions for the MURUROA V4F1 R Suit.

3.1.1 Design and Safety Features

SNC states that when compared with other air-fed respirators, the MURUROA V4F1 R Suit provides the following advantages for the user: (1) dual zippers (metal zipper inside and plastic zipper outside); (2) welded sleeve to insert communication cable; (3) a removable strip near the mouth that could be used for emergency breathing in case of loss of supplied air; (4) an egress strip stretching from left arm, over the head, to the right arm that is used for undressing and for self-rescue in an emergency, such as loss of supplied air; (5) air intake located at the waist with a built-in regulator that self-adjusts airflow; (6) dual magnetic exhaust valves that provide ventilation, and relief of excess pressure in case the suit is squeezed/pinched unexpectedly; (7) very low noise level at maximum airflow; and (8) airflow to arms, legs, and face.

Safety features also include light-weight (2.5 pounds) one-piece construction with welded gloves and booties with tie straps. Helmets are made with Poly Vinyl Chloride material that provides distortion-free vision and are large enough for wearing a headset. Noise levels are less than 80 decibels at maximum airflow and airflow can be adjusted by the user for comfort, but cannot be shut off below the required minimum airflow. These suits are fire-retardant and can be used in temperatures up to 140 °F. The suits are constructed with reinforced elbows, knees, and crotch areas.

3.1.2 Testing and Qualification

Testing conducted by the Institute for Nuclear Protection and Security (INPS), the European certifying agency (comparable to NIOSH), with over 20 years of successful use in European power plants of similar certified suits, form the basis for the SNC's request for authorization to use and take credit for the protection provided by these suits during normal operations (e.g., non-emergencies). The European Standard EN 1073-1 provided testing and acceptance criteria used for certification of the suits. This standard is generally consistent with the pertinent acceptance criteria provided in the Los Alamos National Laboratory Report, LA-10156-MS (used to test and authorize the use of air-supplied suits at Department of Energy sites).

The INPS certification testing regime was broadly based and included a range of various functional areas, including suit material strength, tear and puncture resistance, material flammability, wearer comfort, noise level, wearer visibility, airflow supply system, carbon dioxide concentrations, and degree of contaminate in-leakage during a series of varied simulated work practices and exercises.

The MURUROA V4F1 R Suit provides sufficient airflow to the wearer when used with an air supply system that can provide 450 l/min (16 cfm) airflow at a minimum operating air pressure of 2.5 bar (35 psi).

The MURUROA V4F1 R Suit passed all required certification and manufacturer tests and provided a measured average protection level (fit factor) of 50,000. Developed in a simulated work environment, a fit factor is the ratio of contaminant concentration outside the suit to the

contaminant concentration inside the suit. APFs are generally lower than fit factors for all types of respirators, as workplace demands such as higher heat and humidity, longer work durations, greater worker fatigue, etc., are typically greater on the respirator user than laboratory conditions and simulated work activities.

3.1.3 Implementation

The regulation in Subpart H of 10 CFR Part 20 establishes the requirements for implementing a respiratory protection program. These programmatic requirements ensure that worker doses from airborne radioactive materials are maintained as low as reasonably achievable. SNC has previously obtained NRC approval (Letter dated June 30, 2009 as ADAMS Accession No. ML091660131) to use the MURUROA V4F1 AND MTH2 suits with an APF of 5000 for Hatch, Units 1 and 2, Farley, Units 1 and 2, and Vogtle, Units 1 and 2. The use of the suits has been integrated into the existing, ongoing respiratory protection programs, which satisfy 10 CFR Part 20 requirements, at all three sites. With the exception of a redesigned inlet regulator (for the V4F1 and MTH2 Suits), and the type of suit material (for the MTH2 Suits) the form and function of V4F1 R is the same as the V4F1 and MTH2 MURUROA Suits already approved for the SNC plants by the NRC.

In their May 16, 2013 submittal, SNC stated that they intend to integrate the use of the V4F1 R into these existing programs, using the information provided by the manufacturer, providing an additional respiratory protection option at all three sites.

In addition, the SNC submittal states that workers will be trained on the MURUROA Model V4F1 R Suit features, donning, use and removal of the suits, cautions and use of the mouth strip and tear off strips for routine and emergency egress. Radiation protection personnel will be trained on selection, approval, issue, equipment set-up, operation, and maintenance instructions for the MURUROA Model V4F1 R Suit.

The SNC submittal states that any defects discovered associated with the suits or their use will be entered into the SNC Corrective Action Program and reported to the manufacturer, as appropriate. Industry notifications will be made through the Operating Experience (OE) Program.

The SNC submittal states that SNC will integrate the manufacturer's recommendations for use and storage of the MURUROA Model V4F1 R Suit into the existing 10 CFR Part 20 compliant respiratory program.

The SNC submittal states that SNC will establish lesson plans to be used to train workers and radiation protection technicians on the MURUROA Model V4F1 R Suit features, donning, use and removal, and use of mouth-strip and tear-off strips for routine and emergency egress.

The SNC submittal states that SNC will follow the manufacturer's instructions for use ensuring that the minimum operating air pressure (2.5 bar) and airflow (450 liters/min) is being supplied to the suits prior to working in them, specifically ensuring that the minimum pressure will be monitored during regular use.

3.1.4 Evaluation

Based on the technical information provided in the May 16, 2013, submittal, SNC has demonstrated that the MURUROA V4F1 R suit provides sufficient airflow to the wearer, when

used with an air supply system that can provide 450 l/min (16 cfm) airflow at a minimum operating air pressure of 2.5 bar (35 psi), while affording a comparable level of protection as the MURUROA V4F1.

Additionally, in its application dated May 16, 2013, SNC stated that these suits will not be used in areas that are immediately dangerous to life and health (IDLH) (e.g., ANSI Z99.2-1992 defines IDLH areas as areas that pose immediate hazards to life or immediate irreversible debilitating effects on health).

The NRC staff finds that based on these safety features, the suit design provides for easy and effective self-rescue, thus, avoiding asphyxiation if the air supply is interrupted or lost. Due to these design features of the suit, coupled with required training of all suit users on escape methods, and limiting the use of the suits to non-IDLH atmospheres, the requirement for standby rescue persons in 10 CFR 20.1703(f) is not applicable.

With respect to the SNC's request for the use of an APF of 5,000, given an overall assigned fit factor of 50,000 (averaged over all exercise activities), the NRC staff finds that allowing an APF of 5,000 provides a conservative safety factor for estimating the actual protection provided to the user by the suit in the actual working environment and, therefore, use of an APF of 5,000 for the MURUROA V4F1 R Suit is acceptable.

3.2 MURUROA BLU

3.2.1 Topical Approval

In their May 16, 2013 request, SNC requested authorization to use the Delta Protection's Mururoa BLU single-use, self-supplied, respiratory protection, as described in "Topical Report of Delta Protection Mururoa BLU Single Use Suits," dated October 27, 2005 (TR MURUBLU05NP), which was previously reviewed and approved by the NRC by letter dated April 10, 2006 (ADAMS Accession No. ML060950499).

The NRC staff's SE for TR MURUBLU05NP concluded the following:

Based on the NRC staff's review of the referenced [Topical Report], the NRC staff concludes that the use of the Mururoa BLU (polyvinyl chloride or Ethyfuge) protective suit systems, consistent with the configuration and conditions of use noted above, is in accordance with the requirements of 10 CFR Part 20. Granting an approval for the use of these suits with an APF (assigned protection factor) of 2000, against airborne particulate contamination, will improve overall worker safety while working in high surface contaminated areas, and in high and potentially high airborne radioactivity areas, satisfies the 10 CFR Part 20 ALARA [i.e., as low as reasonably achievable] requirements, and is, therefore, acceptable.

In addition, the safety evaluation for TR MURUBLU05NP Section 4.0, "Approved Device Configuration and Conditions of Use," specified the configurations and conditions of use for the MURUROA BLU Suits.

3.2.2 Implementation

In its May 16, 2013 submittal, SNC stated it will integrate the use of the MURUROA BLU suit into its existing, ongoing respiratory protection programs, which satisfy 10 CFR Part 20 requirements. The MURUROA BLU Suit will be included as an option in the SNC respiratory

protection programs for all three SNC plant sites as an alternate respiratory protection option to its currently approved MURUROA V4F1 or MTH2. The NRC staff finds this approach acceptable.

3.2.3 Evaluation

In its request, SNC stated that it will use the MURUROA BLU Suits consistent with TR MURUBLU05NP and Section 4.0 of the NRC staff's April 10, 2006, SE for TR MURUBLU05NP. SNC did not request any exceptions from the approved configurations and conditions of use specified in Section 4.0 of the NRC staff's SE. In addition, SNC provided a list of actions (and due dates) that it will implement prior to use of the MURUROA BLU Suits.

The NRC staff finds that there is reasonable assurance that the licensee will implement the use of this respiratory protective device, consistent with TR MURUBLU05NP and the conclusions in the NRC staff's SE dated April 10, 2006.

3.3 Table of Actions To Be Completed Prior To Use

The following table, provided as Enclosure 3 to SNC's May 16, 2103 submittal, identifies actions that SNC will complete prior to using the MURUROA V4F1 R and BLU Suits for respiratory protection at Farley, Hatch, and Vogtle. These actions are captured in the SNC Corrective Action Program to assure and track implementation.

Required Action	Due Date
The Mururoa BLU Suits will be used in a configuration consisting of a Mururoa BLU one-piece encapsulating suit of either PVC or Ethyfuge construction, fitted with a Micronel C500X-012EK-AB60 blower with a C501A-012Ak-A battery (consistent with the parts list in Section 7 of Attachment 6.6.6 to Topical Report MURUBLU05NP (ADAMS Accession No. ML053060280)), and four Scott FP 10 P3, or four Delta Protection P3, high efficiency particulate filter cartridges. All four filter cartridges must be matching and replaced as a set.	Prior to placing the suit in service at the site
Procedures for use of the Mururoa BLU Suit systems are integrated into the respiratory programs required by Subpart H of 10 CFR Part 20. Fit testing of user is not applicable to fully encapsulating suits. Prior to use, wearers are trained on these conditions of use as well as the emergency escape features of the suits.	Prior to placing the suit in service at the site

Required Action	Due Date
Procedures will require the Mururoa BLU Suits to be used in accordance with commendations in Attachments 6.6.4, 6.6.5, and 6.6.6 of Topical Report MURUBLU05NP	Prior to placing the suit in service at the site
Procedures will require the Mururoa BLU Suit enclosures to be single use only, and be discarded after use. Unused suit enclosures will be stored in their original manufacturer's packing in an environment not colder than 32 degrees Fahrenheit, nor hotter than 140 degrees Fahrenheit, with a maximum storage shelf-life of 3 years. Suits are not to come in contact with anything colder than 41 degrees Fahrenheit, nor hotter than 140 degrees Fahrenheit, during use.	Prior to placing the suit in service at the site
Procedures will require the Mururoa BLU Suits to be donned with a fully charged battery pack installed on the blower. The maximum period of use (timed from a fully charged battery) is 4 hours with the blower set at 600 liters/minute, and 7 hours with the blower set at 400 liters/minute.	Prior to placing the suit in service at the site
Procedures will require the Mururoa BLU Suits to be used only in atmospheres containing specific contaminants in concentrations that are not immediately dangerous to life or health (IDLH), as given in HIOSH "Concept for Industrial Power, Air-purifying Respiratory Standard," Draft for Comment, May 30, 2005, and have an oxygen content of at least 19.5 percent by volume.	Prior to placing the suit in service at the site
Communication channels will be established between SNC and Delta Protection to report any defects, if experienced, with the Delta Protection Mururoa BLU and model V4F1 R Suits, and to ensure that any manufacturer's notifications concerning the suit systems are received in a timely manner.	Prior to placing the suit in service at the site
The Delta Protection Mururoa BLU and model V4F1 R Suits will be integrated into the respiratory protection programs, using the information provided by the manufacturer.	Prior to placing the suit in service at the site

Required Action	Due Date
Lesson plans will be developed to train workers on the Delta Protection Mururoa BLU and model V4F1 R Suit features, donning, use and removal, cautions, and use of mouth strips and tear off strips for routine and emergency egress	Prior to placing the suit in service at the site
Health Physics personnel will be provided additional training for selection, approval, issue, equipment set-up, operation and maintenance of the Delta Protection Mururoa BLU and model V4F1 R Suits	Prior to placing the suit in service at the site
SNC will use the Delta Protection Mururoa BLU and model V4F1 R suits as allowed in the certification. As a part of this SNC will specifically ensure that the suits are used as recommended by the manufacturer in "Instructions for Use" and will make sure that interfacing air supply pressure and flow is being supplied as required prior to use of the suits.	Prior to placing the suit in service at the site
The Delta Protection MURUROA V4F1 R Suits will be discarded after a single use and will not be used in atmospheres that are IDLH.	Upon implementation of NRC approved use of the V4F1 R Suit for respiratory protection.
Any defects discovered related to Delta Protection Mururoa BLU and/or model V4F1 R Suits will be entered into the SNC Corrective Action Program and reported to the manufacturer, as necessary. Industry notifications, when required, will be made through the OE Program.	Upon implementation of NRC approved use of the V4F1 R Suit for respiratory protection.
SNC plants will perform an initial test of their breathable air network system to ensure that it has sufficient capacity (minimum pressure and flow) through an established maximum length of hose, prior to the initial use of the Delta Protection MURUROA V4F1 R Suit system. This test will establish the conditions at the distribution manifold actually necessary to ensure that the air supplied to the suit inlet is consistent with the conditions for which the equipment was certified.	Upon implementation of NRC approved use of the V4F1 R Suit for respiratory protection.

4.0 CONCLUSION

Based on the testing data provided, and when used in accordance with the applicable manufacturer's instructions and requirements of 10 CFR Part 20 Subpart H, the NRC staff concludes that the licensees' request to use the MURUROA V4F1 R Suit (Certificate No. 0073/197/162/02/01/0005) satisfies the 10 CFR Part 20 requirements, and will provide the suit wearer with an adequate level of protection while working in high and potentially high airborne radioactivity areas.

Based on the statements in the May 16, 2013, submittal that SNC will use the MURUROA BLU Suits consistent with TR MURUBLU05NP and Section 4.0 of the NRC staff's April 10, 2006, SE for TR MURUBLUOSNP (ADAMS Accession No. ML060950499), the staff concludes that the licensees' request to use the MURUROA BLU Suit satisfies the 10 CFR Part 20 requirements, and will provide the suit wearer with an adequate level of protection while working in high and potentially high airborne radioactivity areas.

Therefore, the NRC staff finds that the licensees' requests (a) for the use of the MURUROA V4F1 R Suit with an APF of 5,000 and (b) for the use of the MURUROA BLU Suit with an APF of 2,000 against airborne particulate contamination, are acceptable for Hatch, Units 1 and 2; Farley, Units 1 and 2; and Vogtle, Units 1 and 2.

Principal Contributors: R. Pedersen, NRR

Date: December 13, 2013

December 13, 2013

Mr. C. R. Pierce
Regulatory Affairs Director
Southern Nuclear Operating Company, Inc.
P.O. Box 1295, Bin 038
Birmingham, AL 35201-1295

SUBJECT: EDWIN I. HATCH NUCLEAR PLANT, JOSEPH M. FARLEY NUCLEAR PLANT, AND VOGTLE ELECTRIC GENERATING PLANT-REQUEST FOR USE OF DELTA PROTECTION MURUROA V4F1R SUPPLIED AIR SUITS AND THE MURUROA BLU SUIT SYSTEMS (TAC NOS. MF1851, MF1852, MF1853, MF1854, MF1855 and MF1856)

Dear Mr. Pierce:

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Sincerely,
/RA/
Robert J. Pascarelli, Chief
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-321, 50-366, 50-348, 50-364
50-424, and 50-425

Enclosure: Safety Evaluation
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