



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

March 2, 2012

Mr. Christopher L. Burton
Vice President
Carolina Power & Light Company
Shearon Harris Nuclear Plant
5413 Shearon Harris Road
New Hill, NC 27562

**SUBJECT: SHEARON HARRIS NUCLEAR PLANT – NOTIFICATION OF INSPECTION
AND REQUEST FOR INFORMATION**

Dear Mr. Burton:

During the weeks of April 30 - May 4 and May 14 - 18, 2012, the NRC will perform a baseline Radiation Safety Inspection at Shearon Harris Nuclear Plant, (NRC Inspection Procedures 71124.01, 71124.02, 71124.03, 71124.04, 71124.05 and Radiation Safety Sections of 71151). In order to minimize the impact to your on-site resources and to ensure a productive inspection, we have enclosed a request for documents needed for this activity. The NRC requests that these documents be provided to the inspectors no later than April 11, 2012.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Michael Wallace of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, Adam Nielsen, at (404) 997-4660, or the Plant Support Branch 1 Chief, Brian R. Bonser, at (404) 997-4653.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov>.

Sincerely,

/RA/
Brian R. Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket No.: 50-400
License No.: NPF-63

Enclosure: Document Request List

cc w/encl: (See next page 2)

March 2, 2012

Mr. Christopher L. Burton
Vice President
Carolina Power & Light Company
Shearon Harris Nuclear Plant
5413 Shearon Harris Road
New Hill, NC 27562

SUBJECT: SHEARON HARRIS NUCLEAR PLANT – NOTIFICATION OF INSPECTION
AND REQUEST FOR INFORMATION

Dear Mr. Burton:

During the weeks of April 30 - May 4 and May 14 - 18, 2012, the NRC will perform a baseline Radiation Safety Inspection at Shearon Harris Nuclear Plant, (NRC Inspection Procedures 71124.01, 71124.02, 71124.03, 71124.04, 71124.05 and Radiation Safety Sections of 71151). In order to minimize the impact to your on-site resources and to ensure a productive inspection, we have enclosed a request for documents needed for this activity. The NRC requests that these documents be provided to the inspectors no later than April 11, 2012.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Michael Wallace of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, Adam Nielsen, at (404) 997-4660, or the Plant Support Branch 1 Chief, Brian R. Bonser, at (404) 997-4653.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov>.

Sincerely,

/RA/
Brian R. Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket No.: 50-400
License No.: NPF-63

Enclosure: Document Request List

cc w/encl: (See next page 2)

G PUBLICLY AVAILABLE G NON-PUBLICLY AVAILABLE G SENSITIVE G NON-SENSITIVE
ADAMS: G Yes ACCESSION NUMBER: _____ G SUNSI REVIEW COMPLETE G FORM 665 ATTACHED

OFFICE	RII:DRS						
SIGNATURE	BB for						
NAME	NIELSEN						
DATE	3/2/1012	1/ /2024	1/ /2024	1/ /2024	1/ /2024	1/ /2024	1/ /2024
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

cc w/encl:
Brian C. McCabe
Manager, Nuclear Oversight
Shearon Harris Nuclear Power Plant
Progress Energy
Electronic Mail Distribution

Robert J. Duncan II
Vice President
Nuclear Operations
Progress Energy
Electronic Mail Distribution

Donald L. Griffith
Training Manager
Shearon Harris Nuclear Power Plant
Progress Energy
Electronic Mail Distribution

R. Keith Holbrook
Manager, Support Services
Shearon Harris Nuclear Power Plant
Electronic Mail Distribution

David H. Corlett
Supervisor
Licensing/Regulatory Programs
Progress Energy
Electronic Mail Distribution

David T. Conley
Senior Counsel
Legal Department
Progress Energy
Electronic Mail Distribution

Donna B. Alexander
Manager, Nuclear Regulatory Affairs
(interim)
Progress Energy
Electronic Mail Distribution

John H. O'Neill, Jr.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, NW
Washington, DC 20037-1128

Joseph W. Donahue
Vice President
Nuclear Oversight
Progress Energy
Electronic Mail Distribution

W. Lee Cox, III
Section Chief
Radiation Protection Section
N.C. Department of Environmental
Commerce & Natural Resources
Electronic Mail Distribution

Kelvin Henderson
General Manager
Nuclear Fleet Operations
Progress Energy
Electronic Mail Distribution

Public Service Commission
State of South Carolina
P.O. Box 11649
Columbia, SC 29211

Chairman
North Carolina Utilities Commission
Electronic Mail Distribution

Terrence E. Slake
Manager
Nuclear Plant Security
Shearon Harris Nuclear Power Plant
Electronic Mail Distribution

Robert P. Gruber
Executive Director
Public Staff - NCUC
4326 Mail Service Center
Raleigh, NC 27699-4326

Chair
Board of County Commissioners of Wake
County
P.O. Box 550
Raleigh, NC 27602

(cc w/encl cont'd – See page 3)

(cc w/encl – cont'd)

Ernest J. Kapopoulos Jr.
Plant General Manager
Carolina Power and Light Company
Shearon Harris Nuclear Power Plant
Electronic Mail Distribution

Chair
Board of County Commissioners of Chatham County
P.O. Box 1809
Pittsboro, NC 27312

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Shearon Harris Nuclear Power Plant
U.S. NRC
5421 Shearon Harris Rd
New Hill, NC 27562-9998

Letter to Christopher L. Burton from Brian R. Bonser dated March 2, 2012

SUBJECT: SHEARON HARRIS NUCLEAR PLANT – NOTIFICATION OF INSPECTION
AND REQUEST FOR INFORMATION

Distribution w/encl:

RIDSNRRDIRS

PUBLIC

RidsNrrPMShearonHarris Resource

Document Request List

Inspection Dates: April 30 – May 4 and May 14 – May 18, 2012

Documents Due to Region II by: April 11, 2012

Inspection Procedures:

IP 71124.01	Radiological Hazard Assessment and Exposure Controls
IP 71124.02	Occupational ALARA Planning and Controls
IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation
IP 71124.04	Occupational Dose Assessment
IP 71124.05	Radiation Monitoring Instrumentation
IP 71151	Performance Indicator Verification

Lead Inspector: Adam Nielsen
Sr. Health Physicist
US NRC Region II
(404) 997-4660
Adam.Nielsen@nrc.gov

Note: The current version of these documents is expected unless specified otherwise. Electronic media is preferred if readily available (The preferred file format is Word, WordPerfect, or searchable “.pdf” files on CDROM). *Note that the inspectors cannot accept data provided on USB or “flash” drives due to NRC IT security policies.* Please organize the information as it is arranged below to the extent possible. Experience has shown that a poorly organized CD leads to a less efficient inspection and places additional burden on licensee staff. If there are questions regarding the documents requested, please do not hesitate to contact the lead inspector.

Miscellaneous

1. List of primary contacts for each inspection area w/phone numbers.
2. Electronic copy of UFSAR chapters 11 and 12 (radwaste and radiation protection)
3. Corrective action program procedure
4. Outage schedule of major activities (Gantt chart if available)

71124.01 - Radiological Hazard Assessment and Exposure Controls

1. List of outage RWPs
2. Procedures related to HP controls (e.g. Posting, labeling, surveys, RWPs, contamination control, HRA/LHRA/VHRA control, key control, control of divers, special controls during fuel offload, hot spots, etc.)
3. Procedures related to release of personnel and materials (e.g. release surveys, decontamination, guidance for alarm followup, etc.)
4. List of Nationally Tracked Sources and any change-of-ownership transactions
5. List of all non-fuel items stored in spent fuel pool
6. Most recent self-assessment or audit covering HP controls
7. LIST of NCRs related to HP controls (e.g. radworker error, HP technician error, posting issues, HRA/LHRA/VHRA issues, survey problems, etc.) issued since November 2011. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*

Enclosure

71124.02 - Occupational ALARA Planning and Controls

1. All procedures related to ALARA (e.g. temporary shielding, ALARA planning, source term reduction, etc.)
2. List of top 5 dose jobs for the upcoming refueling outage and ALARA planning packages, if available
3. List of temporary shielding requests generated for the upcoming outage
4. Crudburst/cleanup and trending point data for last two outages
5. Source term reduction strategic plan, if available
6. Most recent self-assessment or audit of ALARA program
7. Most recent annual ALARA report and most recent refueling outage report, if available
8. Annual ALARA goals for 2011 and 2012, and the methodology utilized to make the projections
9. Completed ALARA packages (including post-job reviews) for 5 work activities completed during the previous outage which had the greatest collective dose and/or presented a significant radiological risk
10. LIST of NCRs related to ALARA since October 2010. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs*

71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

1. Procedures related to airborne monitoring and control (e.g. use of containment purge, use of portable HEPA/charcoal units, temporary ventilation enclosures, use of CAMs, air sampling guidance, Alpha air sampling, etc.)
2. Procedures related to the use of respiratory protection devices, (e.g. SCBA, TEDE-ALARA guidance, PAPRs, storage, maintenance, training, QA, fit-testing, etc.)
3. All records of grade D air certification for supplied air system and SCBA filling equipment since November 2011
4. SCBA qualification records
 - a) Vendor training certificates for all individuals qualified to repair SCBA
 - b) List of all licensed operators qualified to use SCBA
 - c) List of all maintenance personnel qualified to use SCBA
 - d) List of all HP personnel qualified to use SCBA
5. Documentation for last 2 surveillances performed on SCBA stored for emergency use
6. Most recent audit or self-assessment covering airborne controls and respiratory protection
7. LIST of NCRs related to airborne monitoring and respiratory protection since November 2011. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*

71124.04 – Occupational Dose Assessment

1. Procedures related to occupational dose assessment (e.g. external dose monitoring, dosimetry issuance and use, unusual dosimetry occurrences, multi-badging/extremity dosimetry/badge relocation, Effective Dose Equivalent, personnel contamination events, storage/care of personal dosimeters, use of electronic dosimeters, *in-vivo* and *in-vitro* internal dose assessment, skin dose assessment, QC for whole body counter, use of passive monitoring if applicable, declared pregnant workers)
2. NVLAP accreditation documentation for current dosimetry used by site
3. LIST of all positive whole body counts, in vitro, or air sampling analyses which resulted in an assigned CEDE equal to or exceeding 10 millirem since November 2011. *[Note: only a listing should be provided for use by the inspectors to select a sample of issues for in-depth review during the onsite inspection]*
4. LIST of all personnel contamination events identified since November 2011. Include full documentation for any PCEs requiring skin dose assessment. *[Note: only a listing*

should be provided for use by the inspectors to select a sample of issues for in- depth review during the onsite inspection, however please include full dose assessment documentation as applicable]

5. Most recent audit or self-assessment of the dosimetry program and the most recent audit of the lab that processes site dosimetry.
6. LIST of NCRs generated since November 2011, for internal or external dosimetry issues/events. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*

71124.05 - Radiation Monitoring Instrumentation

1. Procedures/Guidance Documents for:
 - a) use of portable instrument calibrators (e.g. Shepherd calibrator)
 - b) calibration and functional test/source checks of portable radiation detection instrumentation
 - c) calibration and functional tests of small article monitor (SAM), personnel contamination monitor (PCM), portal monitor (PM), whole body counting (WBC) equipment; and continuous air monitors (CAMs)
 - d) determination of set-points for Area Radiation Monitor (ARM), CAM, PCM, PM and SAM equipment
 - e) collection and analysis of high-range, post accident effluent samples
 - f) QA program for count room instruments
2. The last 2 calibration records (as applicable) for the following monitors:
 - a) 1BD-3527, S/G Blowdown
 - b) RM-1CR-3561A-SA, Containment Isolation "A"
 - c) RM-21RR-3560, Control Room Area
 - d) Count room high-purity Ge detector no. 2
3. The last calibration record for the following monitors:
 - a) 21WL-3541, Waste Monitor Tanks Discharge
 - b) RM-21AV-3509-1SA, Plant Vent Stack Accident Monitor
 - c) Whole Body Counter in Dosimetry area (and GEM-5 if passive monitoring used)
 - d) All SAMs at RCA exit point
 - e) All PCMs at RCA exit point
 - f) All PMs at RCA exit point
4. The last 2 surveillances performed on the Post-accident Sampling System (PASS)
5. Certificates for the sources used to calibrate the above requested monitors showing traceability to a national standard (NIST), as applicable
6. The last test record of the instrument calibrator (Shepherd validation testing/dose rate curves)
7. Latest system health reports for the Radiation Monitoring system.
8. Copies of all audits, self-assessments, and/or reviews of radiation monitoring equipment and portable radiation survey instruments generated since May 2011. The records should include any reviews conducted of vendor facilities, e.g., outside calibration laboratories, as applicable.
9. LIST of NCRs generated since May 2011 related to portable instruments, effluent and area monitors, CAMs, RCA release point monitors, WBCs, and count room instruments. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*

PI Verification (occupational and public cornerstones)

1. Procedure for gathering and reporting PI data.
2. List of all NCRs related to effluent dose/ODCM issues since May 2011. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*
3. LIST of all NCRs related to TS HRA/VHRA issues since May 2011. *This should be a list of corrective action documents containing an AR number and brief description, not full CRs.*
4. Most recent gaseous and liquid effluent release permits showing year-to-date doses to the public
5. LIST of electronic dosimeter alarms since May 2011 (dose and dose rate)