



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

June 17, 2010

Southern Nuclear Operating Company, Inc.
ATTN: Mr. David H. Jones
Nuclear Site Vice President Vogtle Units 3 & 4
7825 River Road
Waynesboro, GA 30830

SUBJECT: SOUTHERN NUCLEAR OPERATING COMPANY VOGTLE ELECTRIC
GENERATING PLANT UNITS 3 and 4 - NRC INSPECTION REPORT
05200011/2010-002

Dear Mr. Jones:

On May 18, and June 3, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Vogtle Electric Generating Plant Units 3 and 4. The enclosed inspection report documents the inspection results, which were discussed on June 4, 2010, with Jim Williams and other members of your staff.

The inspection examined the quality assurance program control of activities conducted under your early site permit (ESP) and limited work authorization as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your ESP. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) 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 Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

David A. Ayres, Chief
Construction Projects Branch 4
Division of Construction Projects

Docket No. 52-00011
Early Site Permit No. ESP-004

Enclosure: NRC Inspection Report 052-00011/2010-002

cc w/encl: (See page 2)

June 17, 2010

Southern Nuclear Operating Company, Inc.
ATTN: Mr. David H. Jones
Nuclear Site Vice President Vogtle Units 3 & 4
7825 River Road
Waynesboro, GA 30830

SUBJECT: SOUTHERN NUCLEAR OPERATING COMPANY VOGTLE ELECTRIC GENERATING PLANT UNITS 3 and 4 - NRC INSPECTION REPORT 05200011/2010-002

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/RA/

David A. Ayres, Chief
Construction Projects Branch 4
Division of Construction Projects

Docket No. 52-00011
Early Site Permit No. ESP-004

Enclosure: NRC Inspection Report 052-00011/2010-002

cc w/encl: (See page 2)

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
ADAMS: Yes ACCESSION NUMBER: ML101680452 SUNSI REVIEW COMPLETE

OFFICE	RII:DCP	RII:DCP	RII:DCP	RII:DCP	RII:DCI	RII:DCI	RII:DCI
SIGNATURE	LM	via e-mail JF	Via e-mail GG	BJA	JB	via phone RJ	Via phone JS
NAME	LMellen	JFuller	GGardner	BAdkins	JBartleman	R.Jackson	JSeat
DATE	6/15/10/ 2010	6/16/10	6/16/10	6/15/10	6/15/10	6/15/10	6/15/10
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\CC\DCP\CPB4\PROJECT VOGTLE\INSPECTION REPORTS
2010\VOGTLE_2010-002 REV L.DOCX

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Letter to David Jones from David A. Ayres dated June 17, 2010

SUBJECT: SOUTHERN NUCLEAR OPERATING COMPANY VOGTLE ELECTRIC
GENERATING PLANT UNITS 3 and 4 - NRC INSPECTION REPORT
05200011/2010-001

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket No: 52-00011

License No: ESP-004

Report No.: 05200011/2010002

Licensee: Southern Nuclear Operating Company (SNC)

Facility: Vogtle Electric Generating Plant Units 3 and 4

Location: Burke County, GA

Inspection Dates: May 17, 2010 through May 18, 2010, and June 3, 2010

Inspectors: John Bartleman, Senior Construction Inspector
George Gardner, Senior Construction Inspector
Brannen Adkins, Construction Project Inspector
Justin Fuller, Senior Construction Inspector
Larry Mellen, Senior Construction Inspector
Rahsean Jackson, Senior Construction Inspector
Jamin Seat, Construction Inspector

Accompanying Personnel: Kevin Mattern, Office of New Reactors
Li Xuefa, Foreign Observer

Approved by: David A. Ayres, Chief
Construction Projects Branch 4
Division of Construction Projects

Enclosure

SUMMARY OF FINDINGS

Inspection Report (IR) 05200011/2010002; Vogtle Electric Generating Plant (VEGP), Units 3 and 4; Inspection Procedure (IP) 35007, Quality Assurance Program Implementation during Construction.

The report covered an announced construction inspection performed by a team of regional inspectors. No findings of significance were identified. The Nuclear Regulatory Commissions' (NRC's) program for the inspection of construction and operational programs is described in Inspection Manual Chapter 2504, Construction Inspection Program – Inspection of Construction and Operational Programs.

- A. NRC-Identified Findings and Licensee Identified/Self-Revealing Violations Evaluated as Findings.

No findings of significance were identified.

- B. Licensee-Identified and Self-Revealing Violations Not Evaluated as Findings

None

REPORT DETAILS

A. CONSTRUCTION PROGRAM-RELATED INSPECTIONS

Inspection of Quality Assurance implementation and program activities in accordance with IP 35007

1) Inspection Scope

The inspectors conducted a detailed review of portions of the licensee's quality assurance program description for conformance with Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, Appendix B. Specifically, the inspectors reviewed the Nuclear Development Quality Assurance Manual (NDQAM), version 9.0. The inspectors' review included quality assurance (QA) criteria: 1, 2, 4, 5, 6, 7, 15, 16, 17, and 18. The inspectors reviewed changes made to the NDQAM from version 8.1 (submitted in the combined license application) to version 9.0. The balance of the criteria, and the implementation of specific quality assurance program requirements that were subcontracted to The Shaw Group Inc. (Shaw), will be reviewed during subsequent inspections.

The inspectors conducted a field inspection to determine whether the licensee had developed adequate procedures, instructions, and other documents (collectively referred to "implementing documents") to implement the quality requirements established by their NRC-approved NDQAM, and 10 CFR Part 50, Appendix B.

The inspectors' review included the following 10 CFR 50, Appendix B QA criteria: Criterion II, Quality Assurance Program; Criterion III, Design Control; Criterion XV, Nonconforming Materials, Parts, or Components; Criterion XVII, Quality Assurance Records. The inspectors sampled sections of the QA program documents, associated implementing documents, and records of completed QA activities.

The inspectors observed the licensee's implementation of portions of their NDQAM for safety-related construction activities associated their early site permit (ESP) and limited work authorization (LWA). Specifically, the inspectors observed the quality controls for a sample of construction activities associated with the Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) incorporated in the licensee's ESP.

The inspectors also reviewed portions of the Shaw quality assurance manual (SWSQAP 1-74A, Shaw Standard Nuclear Quality Assurance Program (SNQAP), Revision B) and associated implementing documents. The licensee had subcontracted portions of QA program implementation to Shaw. For the implementation of a sample of these subcontracted QA activities the inspectors reviewed the Shaw SNQAP and associated implementing documents. The inspectors compared these activities and implementing documents to the Shaw SNQAP, the licensee's NDQAM, and 10 CFR 50, Appendix B.

The inspection on June 3, 2010, focused on construction activities associated with Site Specific ITAAC SS2.5.4.5.5i. The inspectors verified these activities were being conducted in accordance with the applicant's Site Safety Analysis Report (SSAR), ESP and LWA as amended on May 21, 2010.

The inspectors reviewed site plans and area maps to verify the location of areas approved by the amended NRC Safety Evaluation. The inspectors also reviewed portions of work package records to determine if additional approved excavation locations and material were properly tracked in stockpile and final backfill location. The inspectors also directly observed recently approved excavation locations, Notice of Intent (NOI) 6 and 10 to verify specified locations.

IP 35007, Appendix 2: Inspection of Criterion II, Quality Assurance Program

The inspectors reviewed QA program implementing documents for establishment of the QA program for activities affecting the quality of identified structures, systems, and components for conformance with the NDQAM, and 10 CFR 50, Appendix B.

The inspectors reviewed the current version of the licensee's NDQAM (version 9.0), and the "revision summary" to ensure that changes made to the QAPD did not reduce the commitments in the program description previously accepted by the NRC.

The inspectors also reviewed a sample of licensee condition reports (CRs) for construction activities associated with the LWA to verify that the CRs sampled, met the requirements prescribed by 10 CFR 50, Appendix B. Additionally, the inspectors reviewed a sample of job postings to verify that they specified appropriate QA requirements.

The inspectors reviewed a sample of audits of vendors who were performing safety-related work activities associated with the LWA. Additionally, the inspectors reviewed a sample of training records and training matrices for Shaw Group personnel. The inspectors interviewed Shaw personnel responsible for maintaining Shaw's training records to verify they met the requirements of the Shaw SNQAP, the licensee's NDQAM, and 10 CFR 50, Appendix B.

IP 35007, Appendix 3: Inspection of Criterion III, Design Control

The inspectors reviewed licensee design control implementing documents and procedures for consistency with the NDQAM and 10 CFR 50, Appendix B. Several changes to specifications and drawings associated with work being performed under the ESP and LWA were reviewed.

IP 35007, Appendix 15: Inspection of Criterion XV, Nonconforming Materials, Parts, or Components

The inspectors reviewed Section 15, Nonconforming Materials, Parts, or Components, of the Shaw SNQAP, Revision B. The inspectors also reviewed the associated implementing procedures for Section 15 of the SNQAP. Specifically, the inspectors reviewed procedure QS 15.1, Nonconformance and Disposition Report, Revision F for conformance with the SNQAP, the licensee's NDQAM, and 10 CFR 50, Appendix B.

The inspectors reviewed a sample of monthly Nonconformance and Disposition (N&D) status reports and the N&D status log, which were required by Section 7.2.9 of Shaw procedure QS 15.1. The inspectors also reviewed a sample of N&D reports associated

with construction activities associated with the LWA-ITAAC. For the N&D reports sampled, the inspectors compared Shaw's disposition to the requirements prescribed by procedure QS 15.1.

IP 35007, Appendix 17: Inspection of Criterion XVII, Quality Assurance Records

The inspectors reviewed the licensee's QA implementing documents for creating and controlling QA records to determine if they were consistent with the NDQAM. The inspectors conducted interviews with personnel responsible for maintaining and storing QA records to assess their understanding of QA records requirements and procedures.

The inspectors reviewed a sample of individual QA records to ensure that the records were authenticated, legible, and were transmitted from temporary storage to permanent storage within a designated time frame. The inspectors visited the Shaw QA records storage facilities to ensure that facility access was controlled, records were protected from damage (e.g., stored in fire proof safes with the proper fire ratings), records were readily retrievable, and records temporarily removed from the storage facility were controlled.

2) Findings

No findings of significance were identified.

B. Exit Meeting Summary

On May 18, 2010, the regional inspectors presented the inspection results to Mr. Jim Williams and other members of his staff. The inspectors asked the licensee whether any of the material examined during the inspection that was not returned to the licensee should be considered proprietary. The licensee confirmed that while proprietary information was reviewed; all of the material was returned. On June 4, 2010 the Vogtle project engineer confirmed the results of the June 3, 2010 inspection and informed the Vogtle site licensing manager that those results would be included in this report.

KEY POINTS OF CONTACT

Licensee personnel

D. Jones, Site Vice President
J. Davis, Site Licensing Supervisor
J. Williams, Site Support Manager
K. Lowery, Technical Support
D. Schutt, Shaw Licensing
P. Albuquerque, Senior Licensing Engineer
W. Poppell, Shaw Field Engineering
J. Rees, Shaw Field Engineering
A. Reynolds, Shaw QC
J. Martin, MACTEC QA
A. Moore, SNC QA
K. Lowery, SNC Technical Support
B. Futrell, Shaw Construction
M. Tanner, SNC Contractor
J. Beasley, Shaw Quality Engineering
M. Clayton, Shaw Quality Assurance
A. Boyles, Shaw Document Control
J. Detwiler, Shaw Field Engineering

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Opened and Closed

Closed

Discussed

None

LIST OF DOCUMENTS REVIEWED

Section A: Program-Related Inspections

SNC Procedures

NDQAM_2, Nuclear Development Quality Assurance Manual, Revision 9.0
 EAP 17-2, Quality Assurance Records, Revision 2
 ND AD-002, SNC Nuclear Development Corrective Action Program, Version 3.0
 ND-CO-003, Vogtle 3 & \$ Construction, Version 1.0
 ND LI-001, 10 CFR Part 21 and 10 CFR 50.55(e) Evaluating and Reporting of Defects and Noncompliance for Nuclear Development, Version 2.0
 NEPP, Preparation, Review, and Control of License Submittals, 04/28/2008
 NEPP 4-7-0, Project Specifications, Revision 0
 NEPP 4-6-1, Drawings and Diagrams, Revision 1
 NEPP 4-13-2, Design Control (Engineering & Design Coordination Reports), Revision 2
 NEPP 4-43-1, Verification of Design Documents, Revision 1
 NMP GM-002-001, SNC Corrective Action Program Instructions, Version 16.0
 NCSP 2-4-1, Design Control, Revision 1
 APIP 5-18-0, Engineering and Design Coordination Report, Revision 0

Shaw Procedures:

Standard Nuclear Quality Assurance Program, Revision B
 QS 1.1, Shaw Qualification and Experience Requirements for Shaw QA/QC Procurement and/or QA/QC Source Inspection and Start-up Services Personnel, Revision O
 QS 2.3, Stop Work Action, Revision E
 QS 2.12, Qualification, Indoctrination and Continuing Education, Revision H
 QS 15.1, Shaw Nonconformance and Disposition Report, Revision F
 QS 17.1, Quality Assurance Records System, Revision F
 QS 18.1, Quality Audit Program, Revision H
 QAD 2.13, Qualification and Certification of Personnel Performing Audits, Rev. E
 QAD 17.4, Quality Assurance Records Management Plan, Revision G
 QAD 18.1, Quality Assurance Internal Audits, Revision N

Corrective Action Documents:

CAR 2010-04-20-543
 CAR 2010-05-14-578
 CAR 2010-05-17-579
 CR-2009100020
 CR-2009100021
 CR-2009100026
 CR-2009100041
 CR-2009100054
 CR-2010100005
 CR-2010100010
 CR-2010100015
 CR-2010100017
 CR-2010100019
 CR-2010100023

CR-2010100036
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CR-2010100100
CR-2010100101
CR-2010100105
CR-2010100106

Engineering & Design Coordination Reports

EDCR-SVO-C-F-000016
EDCR-SVO-C-F-000018
EDCR-SVO-C-F-000020
EDCR-SVO-C-F-000022
EDCR-SVO-C-F-000024

Job Postings

Engineer (Nuclear Development Quality Assurance)
Engineer (Plant Vogtle Units 3 & 4 Quality Control)
Quality Control Supervisor (Plant Vogtle Units 3 & 4 Quality Control)
Quality Assurance Supervisor (Plant Vogtle Units 3 & 4 Quality Assurance)
Quality Control Specialist (Plant Vogtle Units 3 & 4 Quality Control).

MACTEC Procedures

Nuclear Quality Assurance Manual MACTEC Engineering and Consulting, Inc., Revision 0
MACTEC Quality Assurance Project Document Plant Vogtle Units 3 & 4 Soil and Concrete Testing,
Revision 0
MACTEC Engineering and Consulting, Inc. Certificates of Personnel Qualification
MACTEC Reports of Field Density Tests
MACTEC Work Instruction No. 03, Field Density and Compaction Testing of Soil Backfill at the
Vogtle EGP Units 3 & 4, Revision 0

Audit/Surveillance Documents

SNC Audit NDQA-2009-S1 (Quality Level 3), Final Supplier Surveillance Checklist and Report of Japan Steel Works (JSW) performed April 20-24, 2009, dated June 11, 2009

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-01 - Training

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-02 - Procedures

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-03 - Training

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-04 – N&D's

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-05 – M&TE

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-06 – M&TE

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-07 – E&DCR's

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-08 – Special Process

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-09 – N&D's

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-10 – Work Packages

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-11

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-12

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-13

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-14 – Document Control

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-15 – Document Control

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-16 – Inspection

SNC Quality Assurance Audit Report – Audit No. 2010-05 (April 26-29, 2010), Audit Observation No. 2010-05-17- CARs

Miscellaneous Documents

NPQP 17-01, Quality Assurance Records, Revision 0

SVO-0000-T1-001, Soil and Concrete Testing, Revision 0b

SVO-XE01-Z0-002, Nuclear Island Excavation and Backfill, Revision 2

SVO-1000-XE-027, Vogtle Electric Generating Plant Units 3 & 4 Necessary Excavation and Dewatering Sections and Details, Revision 1

Drawing SV0-0000-X2-002, VEGP Construction Facilities Site Plan, Revision 3

Drawing SV0-0000-X3-009, VEGP Overall Areas Map, Revision C

SNC, VEGP Safety Evaluation by NRO related to Amendment No. 1 of ESP No. 004, Doc. No. 52-011

LIST OF ACRONYMS

ADAMS	Agencywide Documents Access & Management System
CR	Condition Report
ESP	Early Site Permit
IP	Inspection Procedure
IR	Inspection Report
ITAAC	Inspections, Tests, Analyses, and Acceptance Criteria
LWA	Limited Work Authorization
N&D	Nonconformance and Disposition
NRC	U.S. Nuclear Regulatory Commission
NDQAM	Nuclear Development Quality Assurance Manual
NDQAP	Nuclear Development Quality Assurance Program
QA	Quality Assurance
SNC	Southern Nuclear Operating Company
SNQAP	Standard Nuclear Quality Assurance Program
SSAR	Site Safety Analysis Report
SSC	System, Structure, and Component
VEGP	Vogtle Electric Generation Plant
10 CFR	Title 10 of the <i>Code of Federal Regulations</i>