



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

November 8, 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 ESP SITE - NRC INTEGRATED INSPECTION REPORT
05200011/2010-007

Dear Mr. Jones:

On September 30, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Vogtle Electric Generating Plant Early Site Permit (ESP) Site. The enclosed inspection report documents the inspection results, which were discussed on October 11, 2010, with you and other members of your staff.

The inspection examined a sample of construction activities conducted under your ESP and limited work authorization (LWA) 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.

Based on the results of this inspection, no findings of significance were identified.

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 Number: ESP-004

Enclosure: NRC Inspection Report 052-00011/2010-007 w/attachment

cc w/encl: (See next page)

November 8, 2010

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

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

Enclosure: NRC Inspection Report 052-00011/2010-007 w/attachment

cc w/encl: (See next page)

■ PUBLICLY AVAILABLE □ NON-PUBLICLY AVAILABLE □ SENSITIVE ■ NON-SENSITIVE
ADAMS: Yes ACCESSION NUMBER: ML103130516 □ SUNSI REVIEW COMPLETE

OFFICE	RII:DCI	RII: DCP	RII:DCP				
SIGNATURE	RLJ	LSM for	LSM				
NAME	RJackson	JFuller	LMellen				
DATE	11/5/2010	11/5/2010	11/5/2010				
E-MAIL COPY?	YES NO	YES NO					

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cc: cont. (See next page)

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Number (No.): 052-00011

License No.: ESP-004, Amendment 3

Report No.: 05200011/2010007

Licensee: Southern Nuclear Operating Company, Inc.

Facility: Vogtle Electric Generating Plant Early Site Permit Site

Location: Burke County, GA

Inspection Dates: August 16, 2010 through September 30, 2010

Inspectors: Justin D. Fuller, Senior Construction Resident Inspector
Rahsean Jackson, Senior Construction Inspector

Accompanying Personnel: Kathleen O'Donohue, Construction Inspection Branch 2, Chief

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

Enclosure

SUMMARY OF FINDINGS

Inspection Report (IR) 05200011/2010007; 8/16/2010 through 9/30/2010; VEGP Units 3 and 4 ESP Plant Site, routine integrated inspection report.

The report covered a seven week period of inspection by one resident inspector and one region based inspector. No findings of significance were identified.

The Nuclear Regulatory Commission's (NRC's) program for the inspection of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) related work activities is described in Inspection Manual Chapter (IMC) 2503, "Construction Inspection Program – Inspections of ITAAC Related Work." The NRC's program for the inspection of construction and operational programs is described in IMC 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. IMC 2503, Construction Inspection Program – Inspections of ITAAC–Related Work

1. Inspection of ITAAC-Related Foundations & Buildings (Inspection Procedure [IP] 65001.01); and Inspection of ITAAC-Related Construction Test Program (IP 65001.C)

a. Inspection Scope

The inspectors performed a direct inspection of a sample of ITAAC-related, construction activities to determine whether the licensee, and where appropriate the licensee's contractors, had performed these activities in accordance with the NRC's rules and regulations and with the conditions of the licensee's ESP.

Specifically, the inspectors determined whether construction activities were performed in accordance with: (1) the quality requirements prescribed by Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants;" and the licensee's quality assurance program description (QAPD); and (2) the technical requirements established by the licensee's Site Safety Analysis Report (SSAR) and any associated design output documents (e.g., design, procurement, and construction specifications; drawings, calculations, etc.).

The inspectors reviewed the construction activities performed by the licensee and also activities which the licensee had subcontracted to other organizations. Where the licensee had contracted ITAAC-related, construction activities to other organizations; the inspectors determined whether those activities were performed in accordance with the contractor's quality assurance program. The inspectors also assessed the adequacy of the licensee's oversight of their contractors.

Although the licensee maintains overall responsibility for the construction activities performed under their ESP and limited work authorization (LWA), the inspectors noted that the licensee contracted some construction activities (e.g., backfill and associated quality assurance and quality control activities) to a consortium consisting of Westinghouse Electric Company LLC (WEC) and Stone and Webster, Inc. (S&W). Work activities contracted to the consortium included activities associated with the ITAAC that were set forth in Appendix E of the ESP. Further, S&W had subcontracted some ITAAC-related testing activities to MACTEC.

Site Specific ITAAC No. 2.5.4.5.5a / ITAAC Family C01

The inspectors conducted a field inspection of licensee activities involving site specific ITAAC SS2.5.4.5.5a, that requires testing be performed during placement of backfill material under Seismic Category 1 structures to ensure it was installed to meet a minimum of 95 percent modified Proctor compaction.

The inspectors reviewed and observed a sample of activities associated with this ITAAC to determine whether these activities were performed in accordance with the applicable quality and technical requirements, and associated work control documents. Specifically, the inspectors observed and reviewed a sample of

construction activities associated with safety-related backfill excavation, storage, qualification, placement, compaction, and testing.

For these ITAAC-related construction activities, the applicable quality requirements were established, in part, by the following:

- 10 CFR 50, Appendix B,
- The licensee's NRC-approved QAPD (SNC Nuclear Development Quality Assurance Manual [NDQAM])
- The S&W NRC-approved QAPD (S&W Standard Nuclear Quality Assurance Program [SWSQAP 1-74A])
- The MACTEC Nuclear Quality Assurance Manual
- The associated implementing procedures for each organization's QAPD

For these ITAAC-related construction activities, the specific technical requirements were established, in part, by the following:

- SNC, Vogtle ESP Application, Part 2, SSAR, Section 2.5, "Geology, Seismology, and Geotechnical Engineering"
- Specification SV0-XE01-Z0-002, "Nuclear Island Excavation and Backfill"
- Specification SV0-0000-T1-001, "Soil and Material Testing"

The inspectors reviewed the specifications above to determine whether they adequately established backfill testing and placement requirements. The inspectors also reviewed construction site instruction (CSI) No. 3-22-6, "Fill Placement Management Plan for Seismic Category 1 and 2 Backfill," to determine whether it met the applicable quality and technical requirements.

The inspectors reviewed the onsite sources of backfill to determine whether these locations were consistent with the locations prescribed by the SSAR. The inspectors noted that safety-related backfill activities were temporarily suspended from July 2 to August 17, 2010. The inspectors reviewed the licensee's evaluation of this delay on the previously placed backfill to determine whether the licensee adequately evaluated the condition of the backfill prior to resuming work.

Inspectors observed a sample of backfill testing and placement activities to determine whether these activities were performed in accordance with the project specifications and the CSI referenced above. Inspectors also observed stockpiling activities to determine whether the processes for segregating, tracking, and qualifying soil prior to use in seismic category 1 applications were consistent with applicable quality and technical requirements.

The inspectors reviewed a sample of excavation and fill release cards from the following work packages to determine whether they were consistent with applicable quality and technical requirements, and whether there were adequate records to furnish evidence of activities affecting quality: (1) VN3-XC10-CV-MS-015 (Unit 3), and (2) VN4-XC10-CV-MS-016 (Unit 4).

The inspectors reviewed MACTEC's onsite facility certification audit report, which was performed by AASHTO Materials Reference Laboratory (the certifying agency), to determine whether the audit findings were adequately corrected.

Inspectors directly observed ESP/LWA ITAAC-related testing activities at MACTEC's onsite facility to determine whether the testing activities were performed in accordance with applicable industry codes and standards. The inspectors also observed a sample of safety-related field testing activities and sample storage conditions to determine whether field testing and sample storage activities were consistent with applicable quality and technical requirements.

The inspectors observed a modified proctor test to determine whether it was performed in accordance with ASTM 1557, which was required by S&W specification, SV0-XE01-Z0-002. Inspectors observed a sample of measuring and test equipment to determine whether the equipment was stored and handled in accordance with the MACTEC quality assurance program, and that the current calibration was performed by an approved organization. Inspectors also observed MACTEC personnel perform sand-cone test number 346, to verify the field density of the compacted backfill. Sample storage areas were inspected to verify that adequate environmental and access controls were established and samples were properly identified and tracked per the MACTEC quality procedures.

Inspectors reviewed a sample of qualification records for laboratory and field technicians who performed safety-related testing activities to determine whether these personnel were qualified in accordance with the MACTEC Nuclear Quality Assurance Manual.

The inspectors reviewed a sample of the following to determine whether conditions adverse to quality were appropriately identified and corrected in accordance with quality assurance program requirements: (1) S&W Corrective Action Reports related to field and laboratory testing; (2) S&W Unsatisfactory Inspection Reports; (3) S&W Nonconformance and Disposition Reports; and (4) Quality Assurance Inspection Reports related to geotechnical activities. Specific corrective action program records reviewed are listed in the "List of Documents Reviewed" section of this report.

b. Findings

No findings of significance were identified.

B. IMC 2504, Construction Inspection Program – Inspection of Construction and Operational Programs

1. IP 35007, Quality Assurance Program Implementation - During Construction

a. Inspection Scope

The inspectors performed a direct inspection of a sample of construction-related quality assurance program activities, to determine whether the licensee, and where appropriate the licensee's contractors, had: (1) developed adequate procedures to implement the applicable project quality requirements, and (2) effectively

implemented those procedures during the performance of construction activities authorized by the licensee's ESP and LWA.

To determine whether these quality assurance program procedures were adequately implemented, the inspectors: (1) reviewed a sample of quality records that furnished evidence of activities affecting quality, (2) observed a sample of quality related activities, and (3) interviewed licensee and contractor personnel responsible for quality assurance program implementation.

The applicable quality requirements for those activities authorized by the licensee's ESP and LWA were established, in part, by the following:

- 10 CFR Part 50, Appendix B
- SNC NDQAM
- Project Quality Assurance Program (PQAP)
- Additional quality requirements detailed in the MACTEC Nuclear Quality Assurance Manual and the S&W Management Plan for Project Quality (MPPQ)

The PQAP was comprised of the following:

- S&W Standard Nuclear quality Assurance Program (SWSQAP 1-74A)
- Westinghouse Quality Management System (QMS)
- APP-GW-GAH-010, Project Quality Assurance Program Interface Plan for Domestic AP1000 Projects

a1. Inspection Scope (IP35007 - Appendix 2, "Inspection of Criterion II – Quality Assurance Program")

IP 35007 – Appendix 2, Section A2.04.01, Inspection of Quality Assurance Implementing Documents

The inspectors reviewed the licensee's quality assurance program implementing procedure regarding the revision and modification of their NRC-approved NDQAM, to determine whether the procedure was consistent with applicable regulatory requirements [10 CFR 50.55(f)] and the NDQAM (Section 2.5, "Issuance and Revision to QAPD"). Specifically the inspectors reviewed implementing procedure ND-QA-002, "Quality Assurance NDQAM Control and Development," Version 3.0, to determine whether it adequately controlled the following:

- The preparation and approval of updates to the NDQAM
- Changes to the NDQAM which may or may not require NRC approval prior to implementation

IP 35007 – Appendix 2, Section A2.04.02, Inspection of Quality Assurance Program Implementation

The inspectors reviewed the most recent revision of the NDQAM (Version 9.0) to determine whether changes were adequately documented and submitted to the NRC in accordance with licensee procedure ND-QA-002 and 10 CFR 50.55(f).

The inspectors noted that the NRC approved version 6.0 of the NDQAM through issuance of NUREG-1923, "Safety Evaluation Report for an Early Site Permit at the Vogtle Electric Generating Plant ESP Site." The inspectors reviewed the summary of changes between the following revisions to determine whether each change represented a reduction in the commitments previously accepted by the NRC: version 6.0 and 7.0, version 7.0 and 8.0, version 8.0 and 8.1, and version 8.1 and 9.0. For the change from version 8.1 to version 9.0, the inspectors verified that the licensee had submitted the change to the NRC within 90 days, as required by 10 CFR 50.55(f).

a2. Inspection Scope (IP 35007 - Appendix 7, "Inspection of Criterion VII – Control of Purchased Material and Services")

IP 35007 – Appendix 7, Section A7.04.01, Inspection of Quality Assurance Implementing Documents

The inspectors reviewed the licensee's quality assurance program implementing procedure ND-QA-006, "Supplier Quality Surveillance," Revisions 3.0 and 4.0, to determine whether the procedure adequately implemented the project quality requirements.

IP 35007 – Appendix 7, Section A7.04.02, Inspection of Quality Assurance Program Implementation

The inspectors reviewed a routine surveillance report performed by the licensee of MACTEC, a subcontractor to S&W. The inspectors reviewed Final Supplier Surveillance Checklist and Report No. NDQA-2010-S13, dated 8/30/2010 to determine whether the licensee adequately implemented Section 7.1, "Acceptance of Item or Service," of their NDQAM. The inspectors noted that the licensee performs these surveillances to assess the quality of purchased items and services, whether purchased directly or through contractors. The inspectors reviewed the surveillance report to determine whether (1) the report was an adequate record of an activity affecting quality, (2) the report was completed in accordance with the licensee's quality assurance program implementing procedure, ND-QA-006, "Supplier Quality Surveillance," and (3) any issues identified by the licensee were appropriately identified (documented) and corrected in accordance with the project quality requirements. The inspectors noted that the licensee utilized this surveillance to provide an input for the assessment of the quality of MACTEC's testing activities, and also to provide an assessment of the adequacy of the S&W oversight of MACTEC.

a3. Inspection Scope (IP 35007 - Appendix 16, "Inspection of Criterion XVI – Corrective Action" [A16.04.02 Implementation of Corrective Action Program])

IP35007 – Appendix 16, Section A16.04.02, Implementation of Corrective Action Program

On a routine basis, the inspectors reviewed a sample of issues entered into the SNC and S&W corrective action programs to determine whether conditions adverse to quality were controlled in accordance with each company's quality assurance program and whether potential adverse trends (if present) were appropriately

identified and corrected by the licensee or their contractors. Specifically, the inspectors performed the following: (1) attended weekly issue review committee meetings at the site; (2) reviewed a sample of SNC and S&W corrective action documents; and (3) held discussions with SNC and S&W personnel responsible for the screening and correction of the issues.

b. Findings

No findings of significance were identified.

C. OTHER INSPECTION RESULTS

None

D. EXIT MEETING SUMMARY

On October 11, 2010, the NRC resident inspectors presented the inspection results to Mr. David H. Jones, Site Vice President for VEGP Units 3 and 4, and other management representatives for the licensee and the consortium. The licensee confirmed that while proprietary information may have been reviewed during the inspection, that information was appropriately returned to the licensee. The inspectors confirmed that this integrated inspection report does not contain any proprietary information, and that proprietary information was not removed from the plant site.

KEY POINTS OF CONTACT

Licensee and Contractor Personnel

D. Jones	SNC Site Vice President VEGP Units 3 & 4
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B. Lowery	SNC Quality Assurance Supervisor
J. Davis	SNC Licensing Supervisor
J. Detwiler	Shaw Geotechnical Engineer
J. Giddens	SNC Quality Assurance Manager
J. Williams	SNC Site Support Manager
P. Albuquerque	SNC Sr. Engineer
T. O'Brien	SNC Quality Control Supervisor
W. Crisler	Project Quality Assurance Director
W. Poppell	Shaw Field Engineering Manager

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

<u>Item Number</u>	<u>Status</u>	<u>Description</u>
None	N/A	N/A

LIST OF DOCUMENTS REVIEWED

Section A: ITAAC-Related Inspections

MACTEC Procedures

MACTEC Nuclear Quality Assurance Manual Rev. 0

S&W Procedures

SWSQAP 1-74A S&W Standard Nuclear quality Assurance Program Rev. B
PP 4-1-11 Management Plan for Project Quality 8/2/2010

ITAAC 2.5.4.5.5a / C01 Specifications

SV0-XE-01-Z0- Nuclear Island Excavation and Backfill Rev. 4
002

SV0-0000-T1-001 Soil and Material Testing Rev. 1

Construction Site Instruction

CSI 3-22-6 Fill Placement Management Plan for Seismic 8/11/2010
Category 1 and 2 Backfill

Audits and Surveillances

MACTEC Materials Testing Laboratory Assessment Report, 4/20/2010

Drawings

Drawing No. Power Block Backfill Unit 3, Backfill to EL. 180' Rev. 2
SVO-1000-XE-19

Drawing No. Power Block Backfill Unit 3, Backfill to Grade Rev. 4
SVO-1000-XE-21

Drawing No. Power Block Excavation to EL. 130' Sections Rev. 2
SVO-1000-XE-22

Drawing No. Unit 4 Excavation to EL. 130' Power Block Sections Rev. 2
SVO-1000-XE-23

Drawing No. Unit 4 Excavation to EL. 180' Power Block Sections Rev. 2
SVO-1000-XE-24

Corrective Action Records

S&W Nonconformance and Disposition Report No. V-ND-10-0061
S&W Nonconformance and Disposition Report No. V-ND-10-0029
S&W Nonconformance and Disposition Report No. V-ND-10-0010
S&W Nonconformance and Disposition Report No. V-ND-10-0028
S&W Corrective Action Report No. 2010-04-27-556

S&W Corrective Action Report No. 2010-04-27-554
 MACTEC Condition Report No. NUK2010-055, 3/25/2010

Misc.

Quality Assurance Inspection Report No. C131-10-0224
 Quality Assurance Inspection Report No. C131-10-0225
 Work Package No. VN3-XC10-CV-MS-015 (Shaw)
 Work Package No. VN4-XC10-CV-MS-016 (Shaw)

Section B: Non-ITAAC-Related Inspections

SNC Procedures

NDQAM	Nuclear Development Quality Assurance Manual	Version 9.0
ND-QA-002	Quality Assurance NDQAM Control and Development	Version 3.0
ND-QA-006	Supplier Quality Surveillance	Version 3.0
ND-QA-006	Supplier Quality Surveillance	Version 4.0

SNC Audits and Surveillances

NDQA-2010-S13	Final Supplier Surveillance Checklist	8/30/2010
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WEC Procedures

Westinghouse Quality Management System	Rev. 5
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Consortium Procedures

APP-GW-GAH-010	Project Quality Assurance Program Interface Plan for Domestic AP1000 Projects	Rev. 4
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LIST OF ACRONYMS

ADAMS	Agency-wide Documents Access & Management System
CSI	Construction Site Instruction
ESP	Early Site Permit
IMC	Inspection Manual Chapter
IP	Inspection Procedure
IR	Inspection Report
ITAAC	Inspections, Tests, Analyses and Acceptance Criteria
LWA	Limited Work Authorization
MPPQ	Management Plan for Project Quality
NRC	Nuclear Regulatory Commission
NDQAM	Nuclear Development Quality Assurance Manual
No.	Number
PARS	Publicly Available Records
PQAP	Project Quality Assurance Program
QAPD	Quality Assurance Program Description
QMS	Quality Management System
Rev	Revision
S&W	Stone and Webster, INC
SNC	Southern Nuclear Operating Company
Sr.	Senior
SSAR	Site Safety Analysis Report
VEGP	Vogtle Electric Generation Plant
WEC	Westinghouse Electric Company LLC
10 CFR	Title 10 of the <i>Code of Federal Regulations</i>