

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant, Units 3 & 4  
COL Application

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**Part 5** of the referenced ESP application is incorporated by reference with the following supplements and exceptions. As described in **COLA Part 2 Section 13.3**, and in accordance with 10 CFR 52.79(b)(4) and 10 CFR 50.54(q) the following supplements constitute new or additional information.

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Revise the last sentence of the fourth paragraph of page x of the Preface to read:

“It is based on meeting the intent of the guidance contained in NUREG 0654, Revision 1 with the exception of emergency action levels which are based on Nuclear Energy Institute (NEI) 99-01, Revision 4, *Methodology for Development of Emergency Action Levels (EAL)*, for Units 1 and 2. EALs for Units 3 and 4 will be based on the NRC endorsed version of NEI 07-01, Revision 0, *Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors*.”

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Replace Preface page xiii, Figure ii, Vogtle Electric Generating Plant Site Plan, with the attached Preface Figure ii.

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# Vogle Electric Generating Plant, Units 3 & 4 COL Application Part 5 — Emergency Plan

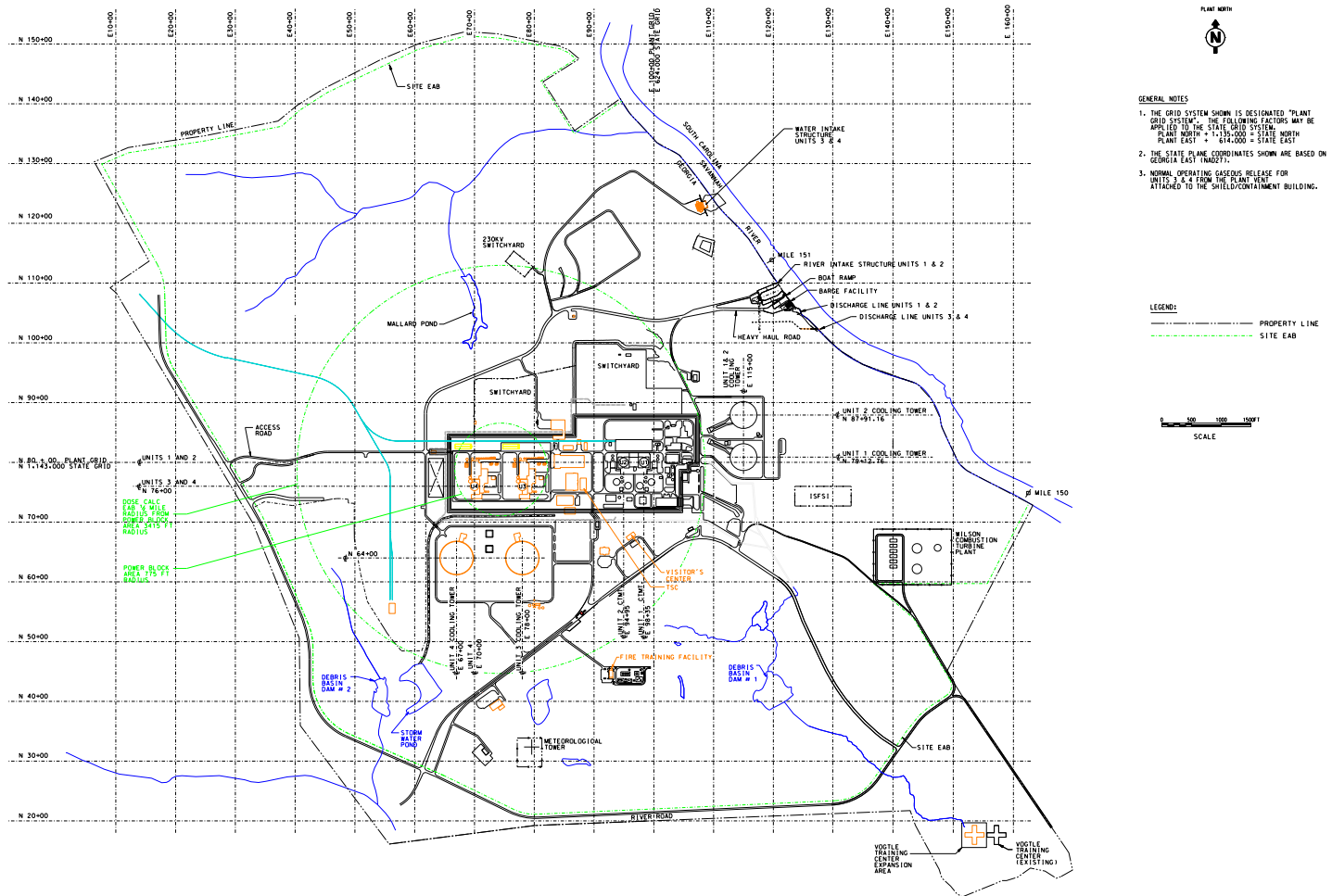


Figure ii Vogle Electric Generating Plant Site Plan

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On Table B-2, *Emergency Response Organization Assignments*, of the Base Plan, revise the table row for Emergency Position “TSC Engineering Supervisor” to read:

TSC Engineering Supervisor VEGP 1 and 2	Supervision from onsite staff as designated in emergency implementing procedures
TSC Engineering Supervisor VEGP 3 and 4	Supervision from onsite staff as designated in emergency implementing procedures

On Table B-2, *Emergency Response Organization Assignments*, of the Base Plan, revise the table row for Emergency Position “TSC Operations Supervisor” to read:

TSC Operations Supervisor VEGP 1 and 2	Supervision from onsite staff as designated in emergency implementing procedures
TSC Operations Supervisor VEGP 3 and 4	Supervision from onsite staff as designated in emergency implementing procedures

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Revise the first sentence of the third paragraph of Subsection D.1 of the Base Plan to read:

“The SNC classification scheme for Units 1 and 2 is based on Nuclear Energy Institute (NEI) 99-01, Revision 4, *Methodology for Development of Emergency Action Levels (EAL)*, January 2003, endorsed by Regulatory Guide 1.101, Revision 4, Emergency Planning and Preparedness for Nuclear Power Reactors. The classification scheme for Units 3 and 4 will be based on the NRC endorsed version of NEI 07-01, Revision 0, *Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors.*”

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Add the following paragraphs between the second and third sentences of the first paragraph of Subsection F.5, Communications among VEGP Emergency Response Facilities:

“The Emergency Communications System (ECS) will have the following characteristics:

- The radio system will consist of base stations and the associated cabling and antennas and will be provided with uninterrupted power.
- For control of the base station, remotes are used in selected facilities.
- Trunked Radios capable of allowing multiple stations to share the same transmission medium (e.g. radio frequency channel) while using only a part of its channel capacity.
- The system includes hand-held radios and mobile radios.

A description of ECS radios is given below:

- The In-plant Radio will be used for communications with in-plant Radiological Emergency Teams (RETs). This radio is accessible from the Control Room, TSC (remote unit) and EOF Voice Over Internet Protocol (VOIP), Central Alarm Station (CAS) and Secondary Alarm Station (SAS).
  - The Field Monitoring Team Radio is used as a back-up communication device for communications with Radiological Field Monitoring Teams. The primary radio for this function is the Southern LINC radio system. This radio is accessible from the Control Room, TSC (remote unit) and EOF.
  - The Security Team Radio is used for communications between in-plant Security personnel and operations personnel as appropriate. Tone remotes are located in the Control Room, the Central Alarm Station and the Secondary Alarm Station.
  - The Burke County Emergency Management Radio is used as a back-up to the ENN. This radio is accessible from the TSC (remote unit) and EOF (VOIP). Communications via this radio are direct between SNC and the Burke County Emergency Operations Center.
  - The South Carolina Emergency Management Division (SCEMD) Radio is used as a back-up to the ENN. This radio is accessible from the TSC (remote unit). Communications via this radio are direct between SNC and the SCEMD Emergency Operations Center (SEOC).”
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Add the following sentence to the end of the second paragraph of Subsection H.1.1, Technical Support Center (TSC) of the Base Plan:

“Motorized vehicles are provided to facilitate the movement of personnel between the TSC and the Site’s Control Rooms.”

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Replace the second sentence of the fourth paragraph of Subsection H.1.1 with:

“The ventilation system will be designed to maintain exposures to occupants at or below 5 rem total effective dose equivalent (TEDE) for the duration of the accident.”

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Add the following after the first sentence of the fifth paragraph of Subsection H.1.1:

“The ventilation system will operate in the pressurization and filtering mode upon detection of high radiation in the TSC ventilation intake.”

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On Table O-2, *Training Course Description*, of the Base Plan, revise the table row for Training Course “Emergency Plan Overview (EPO)” to read:

Emergency Plan Overview (EPO) (a)	This course covers an overview of the emergency plan with special attention to emergency planning zones (EPZs); emergency classification systems; onsite emergency response organizations; responsibilities of emergency response personnel; and site accountability and site dismissal.
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On Table O-2, *Training Course Description*, of the Base Plan, revise the table row for Training Course “Management of Radiological Emergencies (MREs)” to read:

Management of Radiological Emergencies (MREs)	This course covers classification of emergencies using classification systems used by VEGP 1 and 2 and VEGP 3 and 4 as appropriate; emergency notification of onsite and offsite emergency response personnel and agencies; activation and staffing of emergency response facilities; protective action recommendation decision making based on EPA PAGs; retrieval of available plant computer data; reentry and repair operations; and communications and information management; and recovery.
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Add the following sentence at the end of Subsection A7A.1:

“The Emergency Operations Facility has been established consistent with NUREG 0696 guidelines.”

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Revise the second sentence of the second paragraph of Preface page V2-vii of Annex V2 to read:

“It is based on the guidance contained in NUREG 0654, Revision 1, *Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants*, with the exception of emergency action levels which will be based on the NRC endorsed version of Nuclear Energy Institute (NEI) Guideline NEI 07-01, Revision 0, *Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors*.”

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Revise Subsection V2D.2 of Annex V2 to read:

“The Initiating Condition Matrix for Modes 1, 2, 3, and 4 for Units 3 and 4 will be shown in Table Annex V2 D-1, and the Initiating Condition Matrix for Modes 5, 6, and de-fueled will be shown in Table Annex V2 D-2.”

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Add a Subsection V2D.3, Emergency Action Level Technical Basis to page V2D-1 of Annex V2 which reads:

[Reserved for EAL Technical Basis]

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Delete the content of Tables V2D.2-1, Hot Initiating Condition Matrix, Modes 1, 2, 3, and 4 and V2D.2-1, Cold Initiating Conditions Matrix, Modes 5, 6, and De-fueled, found on pages V2D-2 and 3, respectively, and replace with:

[Reserved for Initiating Condition Matrix]

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Revise the second sentence of the first paragraph of Subsection V2H.1, Emergency Facilities, of Annex 2 of the ESP Emergency Plan to read:

“The OSCs are located in each unit’s Control Support Area (CSA) which is adjacent to the passage from the annex building to the nuclear island control room.”

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Annex V2, Appendix 3 and Appendix 4 of the referenced ESP Emergency Plan are not incorporated by reference into the COL application Emergency Plan. Rather, the emergency planning ITAAC provided in Appendix E of the Vogtle Electric Generating Plant Early Site Permit are incorporated by reference in Part 10 of this COL application.

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