

September 7, 1988

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MEMORANDUM FOR: Jack W. Roe, Director, Division of Licensee Performance and Quality Evaluation, NRR  
Steven A. Varga, Director, Division of Reactor Projects - I/II, NRR  
Albert F. Gibson, Director, Division of Reactor Safety  
Philip Stohr, Director, Division of Radiation Safety and Safeguards

FROM: Luis A. Reyes, Director, Division of Reactor Projects

SUBJECT: VOGTLE UNIT 2 READINESS REVIEW PROGRAM STATUS REPORT (THROUGH AUGUST 15, 1988)

Program Summary

There are 11 modules in the Unit 2 Readiness Review Program. Module 23, Security, and module 03A, Preoperational Test, are being submitted in three phases each for a total of 15 submittals for the 11 modules. Thirteen (13) submittals have been made to date. Phase three of the Security and Preoperational Test modules are the only submittals remaining. The licensee is submitting the modules on or ahead of schedule. For the thirteen submittals five acceptance letters have been issued, three inspection reports and acceptance letters are being prepared, and five inspections are in progress or planned.

The licensee has identified four level one findings. A readiness review level one finding is indication of a safety concern. These findings are discussed in the enclosure for modules 06, 12, 20 and 23. The NRC has identified four violations concerning modules 04, 11, 18A, and App. F. Correction of these items should not impact plant licensing.

Enclosed is the status of the submittals and a module review schedule.

Original Signed by  
Luis A. Reyes

Luis A. Reyes

Enclosures:

1. Status of Submitted Modules
2. Module Review Schedule

cc w/encls:

F. Hawkins, NRR  
J. Hopkins, NRR

bcc w/encls: (See page 2)

CONTACT:

M. V. Sinkule  
FTS: 242-5506

8809200175 880907  
PDR ADOCK 05000424  
Q PNU

*Official Copy*

*IE01*

bcc w/encls:  
A. Herdt  
C. Julian  
W. Cline  
V. Brownlee  
M. Sinkule  
C. Patterson  
NRC Resident Inspector  
Document Control Desk

RII

CPatterson  
8/25/88

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RII

MSinkule  
8/22/88

*copy*

RII

VBrownlee  
8/23/88

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ENCLOSURE 1

<u>Status of Submitted Modules:</u>		<u>Scheduled Date for Issuance of NRC Final Evaluation Letter</u>
06 - Electrical	- This module was received on January 8, 1988. An on-site inspection was done with EG&G assistance during May 16-26 concurrent with Module 17/19. The module was found to be acceptable and the report is being finalized. Two unresolved items were identified: One item concerned the labeling of cable trays and junction box location; and, another item was incorporation of the protection relaying logic into the FSAR.	August 18, 1988
	The licensee identified a level one finding. The electrical equipment internal wiring separation criteria as stated in the FSAR was different than that stated in the construction Specification. The licensee reported this item as required by 10 CFR 50.55(e) on February 24, 1988. The corrective action consists of an engineering review, additional testing at Wyle labs, field inspections to be completed by October 31, 1988. All discrepancies to the separation criteria will be documented and modifications made commensurate with the Unit 2 construction schedule prior to fuel load.	
03A - Preoperational - Test	Phase one of this module was received on January 18, 1988. Phase one was completed and the NRC acceptance letter issued April 22, 1988.	May 18, 1988 (Issued April 22, 1988)

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Two followup items were identified. One item is to update the current organizational structure in the phase two submittal, and, the other item was to correct a draft test procedure. The second item was closed in inspection report 88-18.

Phase two was received on November 15, 1988  
May 23. Two inspections were conducted June 20-23 and July 18-22. A third inspection is planned September 12-16 in conjunction with pre-operational testing inspections. No findings concerning readiness review have been identified to date.

04 - Mechanical - This module was received on January 18, May 18, 1988  
 1988. An on-site inspection has been (Issued May 23,  
 performed and the report 88-12 1988)  
 issued. One violation and four followup items were identified. The violation was issued for failure to provide adequate instructions to ensure proper installation of four flow elements which were installed backwards. The four inspector followup items were concerning clarification and updating of calculations done to implement licensee commitments.

The NRC acceptance letter was issued on May 23, 1988.

11 - Pipe Stress and - This module was received August 31, 1988  
 Supports April 19, 1988.

Inspections were conducted May 11-12, June 6-10, July 11-14, 1988. The module is considered acceptable. One violation was identified for failure to follow procedures resulting in errors in pipe support QC and design documentation. The final report is being finalized.

- 18A - Heating, - This module was received June 18, 1988  
 Ventilating and on 2/17/88. Report 88-20 has (Issued June 21,  
 Air-Conditioning been issued with one violation 1988)  
 for failure to install HVAC  
 systems in accordance with the  
 FSAR and one inspector followup  
 item for unavailable HVAC  
 documents.
- The final acceptance letter  
 was issued June 21, 1988.
- 23 - Security - Phase one of this module was received July 11, 1988  
 on 3/10/88. The security program (Issued June 23,  
 (phase one) was reviewed in office 1988 Phase I)  
 and resolution of any questions  
 occurred April 25-29, 1988 during a  
 security inspection. The final  
 acceptance letter was issued June 23,  
 1988.
- The licensee had identified a level  
 one finding where a specific area  
 of the security system design deviated  
 from the Vogtle security plan. A readiness  
 review level one finding is the highest  
 classification and is an indication of a  
 safety concern. This concern dealt with  
 alarm supervisory circuits.
- Phase two of this module was received November 21,  
 July 18, 1988. An inspection is 1988  
 planned for the week of July 18, 1988.
- 17/19 - Electrical - This module was received on March 7, August 18,  
 Raceways and 1988. An on-site inspection was done 1988  
 Supports with EG&G assistance during period  
 May 16-26, 1988, concurrent with Module 06.  
 The module is considered acceptable  
 and the report is being finalized.  
 One unresolved item was identified  
 concerning cable tray separation and  
 location of flexible conduit.

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- App. F - Inspector - This module was received on July 27, 1988  
 Qualification Mar. 30, 1988 which was two weeks (Issued July 26,  
 ahead of schedule. NRC inspections 1988)  
 were conducted May 9-13, 1988 and  
 May 23-26, 1988. One violation  
 was identified in that an ANSI  
 requirement to have certified  
 Level III inspectors has not been  
 met. GPC construction utilizes  
 Level III Administrators as technical  
 inspectors for the purpose of  
 coordinating and evaluating the  
 orientation, training and certification  
 of inspection personnel. This violation  
 only applies to GPC technical inspectors  
 and does not affect GPC NDE nor any  
 contractor inspection personnel.  
 Level III Administrators do not record,  
 implement, plan or evaluate inspection,  
 examination and testing activities. GPC  
 intends to revise the FSAR to include  
 use of Level III Administrators and  
 specify their function.
- The final acceptance letter was  
 issued July 26, 1988.
- 20 - Instrumentation- This module was received June 28, November 30,  
 and Controls 1988 Inspections will be done with 1988  
 EG&G assistance August 22, 1988 -  
 September 1, 1988.
- The licensee identified a level one  
 finding. The installation details  
 for instrumentation tube supports  
 were found in conflict with a general note  
 on the drawing and with the design  
 guidelines for instrumentation supports.
- 12 - Cables and - This module has been received and November 30,  
 Terminations will be done concurrent with module 1988  
 20.
- The licensee identified a level one  
 finding. The calculation used to  
 establish maximum cable pulling  
 distances through conduit contained  
 nonconservative assumptions.

13B - Coatings - This module was received by DRS on August 10, 1988. An on-site inspection is planned August 29 - September 2, 1988. December 12, 1988

