



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
September 26, 1985

Docket Nos: 50-424
and 50-425

APPLICANT: Georgia Power Company
FACILITY: Vogtle, Units 1 and 2
SUBJECT: SUMMARY OF EQUIPMENT QUALIFICATION SQRT AND PVORT PRE-AUDIT
MEETING HELD SEPTEMBER 11, 1985

On September 11, 1985, the staff met with the applicant and its representatives at the Bechtel offices in Norwalk, California, to discuss the Vogtle seismic qualification review team (SQRT) and pump and valve operability review team (PVORT) programs and audits. Participants are listed in Enclosure 1.

The applicant discussed its SQRT and PVORT programs. Slides are contained in Enclosure 2. Highlights of the applicant's presentation include the equipment qualification (EQ) task force which is composed of members from Georgia Power Company, Southern Company Services, Bechtel, Westinghouse and consultants as needed. The functions of the task force include overseeing implementation of NRC requirements, development of qualification guidelines for test laboratories and suppliers, and review of EQ documentation and activities.

The NSSS qualification program is very similar to that of other plants such as Millstone 3. This program is based on Westinghouse generic testing and analyses and then shown to apply to Vogtle-specific equipment.

The BOP SQRT qualification program for mechanical equipment is done by both test and analysis while that of electrical equipment is primarily by testing. The BOP PVORT program is similar to the NSSS PVORT program.

The applicant also discussed its program to maintain the qualification of safety-related equipment which includes administrative controls, maintenance and surveillance programs, and a central file. As part of the administrative controls, the applicant will review replacement parts and work orders to ensure that items are replaced and accomplished on schedule. The operations assessment program evaluates operating events throughout the industry as well as ones that have occurred onsite.

The applicant indicated that the qualification and installation status is as follows: qualification, 85%; installation (mounted), 70%; and installation (operable), 25%.

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Following the applicant's presentation, the staff discussed the audit process and provided guidelines for preparing for the audit as presented below.

- ° Documentation should be complete and should correspond to what is installed. Original test reports, including proprietary reports, and purchase specifications must be available at the audit. The documentation should be appropriately reviewed, accepted, and signed and should apply specifically to the Vogtle docket.
- ° Necessary equipment modifications, with proper quality assurance, should be completed by the time of the site audit.
- ° The applicant needs to provide a listing of the active pumps and valves.
- ° Proper supports for small diameter tubing should be in place prior to the audit.
- ° For pipe-mounted equipment, the g value used in seismic testing should not be less than the design value.
- ° For two adjacent cabinets or pieces of equipment, the applicant should be sure to inspect the installation of all safety-related equipment and evaluate the dynamic interaction between adjacent pieces.
- ° Pertinent required response spectra must be made available at the site.
- ° For equipment qualified by previous test results, dynamic similarity for excitation and equipment needs to be provided to justify the use of such methodology.

The staff indicated that 85% of the equipment needs to be ready to operate before the applicant submits its master listing. The staff indicated that 15 to 20 items would be chosen from the master list in the PVORT area and approximately 24 items in the SQRT area. The applicant will be informed of the staff's choices approximately one week after its receipt of the master list. The applicant would then submit the PVORT and SQRT long forms for the selected equipment about three to four weeks later. The staff should receive the long forms at least one week prior to the start of the audit. The staff also requested that P&IDs be provided with the PVORT long forms. The staff also clarified that when a pump or valve is chosen, documentation should also be provided for the actuator, coupling, etc. It would also be helpful to the staff if the applicant indicated which pieces of equipment have been or plan to be tested.

The applicant also committed to list the active pumps and valves in the master listing as well as grouping the NSSS components by system so that the appurtenances directly correspond to the main components.

The applicant stated that it anticipated being ready for a site audit in the first quarter of 1986.

Melanie A. Miller

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Enclosures:
As stated

cc: See next page

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9/11/85

NRC SQRT AND PVORT PRE-AUDIT MEETING AGENDAVOGTLE ELECTRIC GENERATING PLANT

INTRODUCTORY COMMENTS	BAILEY
PROGRAM OVERVIEW	BAILEY
EQUIPMENT QUALIFICATION TASK FORCE	BATUM
NSSS SEISMIC & DYNAMIC QUALIFICATION PROGRAM	McINERNEY/GUERIN
NSSS PUMP AND VALVE OPERABILITY PROGRAM	SPAN/McINERNEY
BOP SEISMIC & DYNAMIC QUALIFICATION PROGRAM	TIWARI/LINDERMAN
BOP PVORT PROGRAM	TIWARI
VOGTLE PROGRAM TO MAINTAIN QUALIFICATION	PENLAND
QUALIFICATION AND INSTALLATION STATUS	WHELESS
NRC STAFF REQUIREMENTS AND AUDIT PROCESS	NRC
EQ CHECKLIST, DATA PACKAGE AND PVORT BINDERS	TIWARI
REVIEW OF EQDP AND PVORT SAMPLE PACKAGES	NRC/LINDERMAN/SHARMA
SQRT AND PVORT AUDIT SCHEDULE	NRC
CONCLUSIONS	

PLANT VOGTLE EQUIPMENT QUALIFICATION PROGRAM OVERVIEW

RESPONSIBILITIES

- o GPC DEFINES AND DIRECTS QUALIFICATION PROGRAMS
- o BECHTEL IMPLEMENTS BOP QUALIFICATION PROGRAMS
- o WESTINGHOUSE IMPLEMENTS NSSS QUALIFICATION PROGRAMS
- o EQ TASK FORCE OVERSEES QUALIFICATION PROGRAMS FOR GPC
AS INDEPENDENT CONSULTING GROUP

PROGRAM REQUIREMENTS

- o IEEE 323-1974/IEEE 344-1975
- o SRP 3.9/3.10 AND REFERENCED REGULATORY GUIDES
- o BOP - SPECIFICATIONS EA/QG
- o NSSS - WCAPS 8587 AND 9714/FSAR 3.9.3.2

PROGRAM IMPLEMENTATION

0 SEISMIC AND DYNAMIC LOAD QUALIFICATION

- BOP/NSSS PROGRAMS ARE SIMILAR
- UTILIZE ANALYSIS TO QUALIFY PASSIVE EQUIPMENT
- QUALIFY ELECTRICAL EQUIPMENT BY TESTING OR COMBINATION OF TEST AND ANALYSIS
- ACTIVE MECHANICAL EQUIPMENT IS QUALIFIED BY A COMBINATION OF TEST AND ANALYSIS

0 PUMP AND VALVE OPERABILITY

- BOP/NSSS PROGRAMS ARE SIMILAR
- COMBINATION OF ANALYSIS AND TESTING ARE USED TO DEMONSTRATE THE OPERABILITY OF ACTIVE PUMPS AND VALVES
- ELECTRICAL APPURTENANCES ARE QUALIFIED IN ACCORDANCE WITH IEEE 323-1974/344-1975

EQUIPMENT QUALIFICATION TASK FORCE

- 0 TASK FORCE FORMATION - 1979
- 0 TASK FORCE MEMBERS
 - GEORGIA POWER COMPANY
 - SOUTHERN COMPANY SERVICES
 - BECHTEL POWER CORPORATION
 - WESTINGHOUSE ELECTRIC CORPORATION
 - ENVIRONMENTAL AND SEISMIC CONSULTANTS
- 0 OBJECTIVES AND FUNCTION
 - IMPLEMENTATION OF NRC REQUIREMENTS
 - GENERATION OF ENVIRONMENTAL AND SEISMIC QUALIFICATION REQUIREMENT SPECIFICATIONS (EA & QG)
 - ASSISTANCE TO SUPPLIERS AND TESTING LABORATORIES
 - REVIEW OF SUPPLIER DOCUMENTS
 - REVIEW OF EQ RELATED ENGINEERING, SUPPLIER, STARTUP, AND CONSTRUCTION ACTIVITIES
 - REVIEW OF EQ CHECKLISTS, DATA PACKAGES, AND PVORT PACKAGES

WESTINGHOUSE QUALIFICATION PROGRAMS
FOR VOGTLE

- o SEISMIC AND DYNAMIC LOAD QUALIFICATION FOR MECHANICAL AND ELECTRICAL EQUIPMENT
- o PUMP AND VALVE OPERABILITY
- o THE ABOVE PROGRAMS AS IMPLEMENTED FOR VOGTLE ARE SIMILAR TO THOSE REVIEWED BY THE EQUIPMENT QUALIFICATION BRANCH OF OTHER WESTINGHOUSE PLANTS

SEISMIC AND DYNAMIC LOAD QUALIFICATION

MECHANICAL EQUIPMENT

- O WESTINGHOUSE GENERALLY DEMONSTRATES SEISMIC AND DYNAMIC LOAD QUALIFICATION THROUGH ANALYSIS
- O ANALYSIS TECHNIQUES INCLUDE:
 - STATIC ANALYSIS
 - RIGID EQUIPMENT (NATURAL FREQUENCY GREATER THAN 33 HZ)
 - HEAT EXCHANGERS, PUMPS, VALVES, ETC.
 - QUASI-STATIC ANALYSIS
 - SEMI-RIGID EQUIPMENT (ONE NATURAL FREQUENCY LESS THAN 33 HZ)
 - LARGE TANKS

- DYNAMIC ANALYSIS (RESPONSE SPECTRA OR TIME HISTORY)
 - FLEXIBLE EQUIPMENT (NATURAL FREQUENCY LESS THAN 33 HZ)
 - PRIMARY COMPONENTS, PIPING
 - THE ANALYSIS TECHNIQUES USED BY WESTINGHOUSE ARE CONSISTENT WITH IEEE 344 AND ARE DESCRIBED IN WCAP 9714 AND THE VOGTLE FSAR (E.G., SECTIONS 3.7, 3.9, 3.10)
- O WESTINGHOUSE GENERALLY QUALIFIES MECHANICAL EQUIPMENT TO GENERIC QUALIFICATION REQUIREMENTS AND DEMONSTRATES THE APPLICABILITY OF GENERIC REQUIREMENTS SPECIFICALLY TO VOGTLE

ELECTRICAL EQUIPMENT

- O WESTINGHOUSE QUALIFIES ELECTRICAL EQUIPMENT FOR SEISMIC AND DYNAMIC LOADS BY TEST OR A COMBINATION OF TEST AND ANALYSIS
- O QUALIFICATION METHODS INCLUDE:
 - MULTI-AXIS, MULTI-FREQUENCY TESTING
 - SINGLE AXIS, SINGLE FREQUENCY TESTING (FOR SELECTED EQUIPMENT DEMONSTRATED TO MEET IEEE 344-1975 REQUIREMENTS)
 - MULTI-AXIS SINGLE FREQUENCY TESTING
 - SINGLE AXIS SINGLE FREQUENCY TESTING (LINE MOUNTED EQUIPMENT)
 - COMBINATION OF TEST AND ANALYSIS (E.G., MOTORS)
 - THE TESTING METHODS USED BY WESTINGHOUSE ARE CONSISTENT WITH IEEE 344-1975 AND ARE DESCRIBED IN THE VOGTLE FSAR, WCAP'S 8587 AND 9714
- O THE GENERIC WESTINGHOUSE ELECTRICAL EQUIPMENT QUALIFICATION PROGRAM HAS BEEN REVIEWED BY THE NRC WITH THE SER ISSUED IN NOVEMBER 1983

PUMP AND VALVE OPERABILITY

- O IN ADDITION TO QUALIFYING EQUIPMENT FOR SEISMIC AND DYNAMIC LOADS, OPERABILITY FOR ACTIVE COMPONENTS IS DEMONSTRATED
- O OPERABILITY IS DEMONSTRATED BY A COMBINATION OF TEST AND ANALYSIS
- O WESTINGHOUSE DEMONSTRATES OPERABILITY FOR ACTIVE PUMPS AND VALVES AS PART OF THE STANDARD WESTINGHOUSE OPERABILITY PROGRAM

PUMP OPERABILITY

O MANUFACTURING TESTS

- IN-SHOP HYDROSTATIC TEST AT 150% OF DESIGN PRESSURE
- SEAL LEAKAGE TESTS
- PERFORMANCE TEST
- BEARING TEMPERATURES AND VIBRATION LEVELS ARE MONITORED DURING THESE TESTS

O FAULTED CONDITION ANALYSIS

- ENSURES PUMP WILL START, CONTINUE OPERATING AND NOT BE DAMAGED DURING FAULTED CONDITION
- STRUCTURAL ANALYSIS AS PREVIOUSLY DESCRIBED
- NATURAL FREQUENCY ANALYSIS OR TEST TO DEMONSTRATE PUMP IS RIGID (GREATER THAN 33 HZ)
- STATIC DEFLECTION ANALYSIS OF ROTOR/SHAFT
- PUMP/MOTOR ALIGNMENT EVALUATION

O IN-PLANT TESTS

- COLD HYDROSTATIC TEST
- HOT FUNCTIONAL TEST
- IN-SERVICE INSPECTION AND OPERATION

O ACTIVE PUMP MOTORS ARE QUALIFIED FOR OPERABILITY AS PART OF THE WESTINGHOUSE GENERIC ELECTRICAL EQUIPMENT QUALIFICATION PROGRAM, WCAP 8587

VALVE OPERABILITY

- O MANUFACTURING TESTS
 - SHELL HYDROSTATIC TEST
 - BACKSEAT AND MAINSEAT LEAKAGE TESTS
 - DISC HYDROSTATIC TEST
 - STROKE TEST
- O FAULTED CONDITION ANALYSIS
 - STRUCTURAL ANALYSIS AS PREVIOUSLY DISCUSSED
 - NATURAL FREQUENCY ANALYSIS OR TEST TO DETERMINE IF VALVE IS RIGID (GREATER THAN 33 HZ)
 - STATIC DEFLECTION ANALYSIS OF EXTENDED STRUCTURE ON EACH VALVE
- O STATIC DEFLECTION TEST (FOR VALVES WITH EXTENDED STRUCTURE)
 - MOUNT VALVE IN INSTALLED CONDITION
 - APPLY DESIGN PRESSURE
 - DEFLECT EXTENDED STRUCTURE STATICALLY IN DIRECTION OF WEAKEST AXIS
 - STROKE VALVE AND COMPARE STROKE TIMES

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0 IN-PLANT TESTS

- COLD HYDROSTATIC TEST
- HOT FUNCTIONAL TESTS
- INSERVICE INSPECTION AND OPERATION

0 VALVE ELECTRIC APPURTENANCES (MOTOR OPERATORS, LIMIT SWITCHES, AND SOLENOIDS) ARE QUALIFIED FOR OPERABILITY IN ACCORDANCE WITH THE GENERIC WESTINGHOUSE ELECTRICAL EQUIPMENT QUALIFICATION PROGRAM, WCAP 8587

0 SAFETY VALVES

- QUALIFIED FOR OPERABILITY IN A SIMILAR MANNER AS DESCRIBED ABOVE FOR VALVES WITH EXTENDED STRUCTURES
- STATIC DEFLECTION TEST
 - MOUNTED IN WORST CASE CONFIGURATION
 - PRESSURIZED TO NORMAL CONDITIONS
 - STATIC LOAD APPLIED TO BONNET IN DIRECTION OF WEAKEST AXIS
 - INCREASE PRESSURE UNTIL VALVE ACTUATES
 - REDUCE PRESSURE TO RESET VALVE

0 POWER-OPERATED RELIEF VALVES (PRESSURIZER)

- HAVE BEEN QUALIFIED UNDER THE GENERIC WESTINGHOUSE ELECTRICAL EQUIPMENT QUALIFICATION PROGRAM
- STATIC DEFLECTION TESTS PERFORMED TO VERIFY OPERABILITY (AS DESCRIBED WITH VALVES WITH EXTENDED STRUCTURES)

SUMMARY

- O WESTINGHOUSE HAS IMPLEMENTED PROGRAMS ON VOGTLE TO QUALIFY EQUIPMENT FOR SEISMIC AND DYNAMIC LOADS AND TO DEMONSTRATE THE OPERABILITY OF ACTIVE COMPONENTS
- O THESE QUALIFICATION PROGRAMS SATISFY THE VOGTLE LICENSING REQUIREMENTS
- O IMPLEMENTATION OF THESE PROGRAMS WILL BE FURTHER DEMONSTRATED DURING NRC SITE AUDITS AT VOGTLE
- O WESTINGHOUSE MAINTAINS COMPLETE QUALIFICATION DOCUMENTATION FILES FOR VOGTLE AND WILL PROVIDE ALL APPROPRIATE DOCUMENTATION FOR NSSS EQUIPMENT AT THE SITE AUDITS

BOP SEISMIC AND DYNAMIC QUALIFICATION

METHODOLOGIES FOR QUALIFICATION

0 MECHANICAL EQUIPMENT

- GENERALLY QUALIFIED BY ANALYSIS
- ANALYTICAL MODELS VERIFIED BY MODAL TESTING
- STATIC ANALYSIS
 - RIGID EQUIPMENT (NATURAL FREQUENCY GREATER THAN 33 HZ)
- DYNAMIC ANALYSIS (RESPONSE SPECTRA OR TIME HISTORY)
 - FLEXIBLE EQUIPMENT (NATURAL FREQUENCY LESS THAN 33 HZ)
- COMBINATION OF ANALYSIS AND TEST
 - COMPLEX EQUIPMENT
 - SIMILARITY TO TESTED EQUIPMENT
 - STATIC PULL TEST TO DEMONSTRATE VALVE OPERABILITY

0 ELECTRICAL EQUIPMENT

- ELECTRICAL EQUIPMENT QUALIFIED BY TEST OR COMBINATION OF TEST AND ANALYSIS
- TEST METHODS
 - RANDOM MOTION (MULTI-FREQUENCY, MULTI-DIRECTIONAL)
 - SINGLE OR MULTI-AXIS SINGLE FREQUENCY (LINE MOUNTED EQUIPMENT)
 - COMBINATION OF TEST AND ANALYSIS (E.G. MOTORS, CABINETS)

BOP PVORT PROGRAM

- 0 BOP PROGRAM IS SIMILAR TO THAT DESCRIBED FOR NSSS PRE-
VIOUSLY.
- 0 DOCUMENTATION IS OBTAINED TO DEMONSTRATE THAT PUMP AND VALVE
ASSEMBLIES LOCATED IN SYSTEMS WILL PERFORM THEIR SAFETY FUNCTION
DURING THE INSTALLED LIFE OF THE ASSEMBLY.

SUMMARY

- 0 BOP PROGRAMS MEET NRC CRITERIA FOR SEISMIC, DYNAMIC
QUALIFICATION AND PUMP AND VALVE OPERABILITY REQUIREMENTS

PROGRAM TO MAINTAIN
QUALIFICATION OF SAFETY-RELATED
EQUIPMENT

- O ADMINISTRATIVE CONTROLS
- O MAINTENANCE AND SURVEILLANCE PROGRAMS
- O CENTRAL FILE

ADMINISTRATIVE CONTROLS

PROCEDURAL CONTROLS THAT ENSURE SAFETY RELATED
EQUIPMENT REMAINS QUALIFIED

- O MAINTENANCE AND SURVEILLANCE PROGRAM
- O CENTRAL FILE
- O REVIEW OF REPLACEMENT PARTS
- O REVIEW OF WORK ORDERS
- O OPERATIONS ASSESSMENT PROGRAM

MAINTENANCE AND SURVEILLANCE PROGRAMS

PROGRAMS DESIGNED TO IDENTIFY AND SCHEDULE MAINTENANCE ACTIVITIES TO ENSURE SAFETY RELATED EQUIPMENT WILL OPERATE WHENEVER REQUIRED

- O PLANNED MAINTENANCE AND SURVEILLANCE
- O PREDICTIVE MAINTENANCE
- O EQUIPMENT FAILURE TRENDING
- O TECHNICAL SPECIFICATION SURVEILLANCE TESTING

CENTRAL FILE

DOCUMENTATION MAINTAINED IN AN AUDITABLE AND RETRIEVABLE MANNER
THAT SUPPORT QUALIFICATION OF SAFETY RELATED EQUIPMENT

- o BOP DOCUMENTATION MAINTAINED BY BECHTEL UNTIL
TURNED OVER TO GPC
- o AFTER TURN OVER, GPC DOCUMENT CONTROL WILL
MAINTAIN BOP DOCUMENTATION
- o NSSS DOCUMENTATION MAINTAINED BY WESTINGHOUSE
FOR LIFE OF PLANT (CONTRACTUAL AGREEMENT)
- o NSSS SUMMARY DOCUMENTATION MAINTAINED BY GPC
DOCUMENT CONTROL
- o PROCEDURALLY CONTROLLED
- o AUDITABLE AND RETRIEVABLE

QUALIFICATION AND INSTALLATION STATUS

QUALIFICATION	-	85%
INSTALLATION (MOUNTED)	-	70%
INSTALLATION (OPERABLE)	-	25%
QUANTITY TRACKING SYSTEM	-	QTS

BOP EQ CHECKLIST AND DATA PACKAGE (EQDP)

THE DOCUMENTATION ADDRESSES THE FOLLOWING AREAS:

- 0 EQUIPMENT QUALIFICATION DOCUMENT REVIEW (EQ TASK
FORCE SIGN-OFF)
- 0 EQDP IDENTIFICATION
- 0 EQDP REVISION RECORD
- 0 QUALIFICATION REQUIREMENTS SUMMARY
- 0 LIST OF REFERENCES
- 0 ENVIRONMENTAL SUMMARY SHEET
- 0 NUREG 0588 CHECKLIST
- 0 MASTER LISTING (SEISMIC)
- 0 SEISMIC SUMMARY SHEETS (SQRT) AND REQUIRED RESPONSE
SPECTRA (RRS) CURVES
- 0 CALCULATIONS (IF REQUIRED)
- 0 MAINTENANCE/REPLACEMENT INFORMATION
- 0 EQUIPMENT QUALIFICATION DESIGN CHANGE FORM (FECO
VERIFICATION)
- 0 MISCELLANEOUS INFORMATION (CORRESPONDENCE)

ABOVE DOCUMENTATION IS ASSEMBLED FOR ALL BOP EQUIPMENT.

BOP PVORT DATA PACKAGE

THE DOCUMENTATION PRESENTED TO THE AUDIT TEAM WILL ADDRESS THE FOLLOWING AREAS:

- | | |
|------------------------------------|--|
| 0 PURCHASE SPECIFICATIONS | 0 NON-CONFORMANCE STATEMENTS |
| 0 TECHNICAL (USERS) MANUAL | 0 CERTIFICATE OF COMPLIANCE |
| 0 FLOW CURVES (PUMPS) | 0 ADMINISTRATIVE PROCEDURES |
| 0 HYDRO TEST RESULTS | 0 MAINTENANCE SCHEDULES |
| 0 LEAK RATE TEST | 0 VENDOR DRAWING |
| 0 SEISMIC TEST/ANALYSIS | 0 PRE-OPERATION TEST PROCEDURES |
| 0 ENVIRONMENTAL TEST/ANALYSIS | 0 SIMILARITY STATEMENTS |
| 0 OTHER APPLICABLE TEST
REPORTS | 0 FLOW DIAGRAMS FOR UNDECLARED
COMPONENTS |

THE PVORT LONG FORM WILL ALSO BE COMPLETED FOR EACH ASSEMBLY SELECTED FOR PVORT AUDIT.

MEETING SUMMARY DISTRIBUTION

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