



Georgia Power

the southern electric system

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Vice President and Project
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United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II-Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

File: X7BG03-M39
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Reference: Vogtle Electric Generating Plant-Units 1 and 2, 50-424, 50-425;
Pipe Support Design Calculations, GN-283, dated 11/21/83

Attention: Mr. James P. O'Reilly

Gentlemen:

In our letter GN-283 dated November 21, 1983, Georgia Power Company indicated that the NRC could expect a final report on this subject by March 25, 1984. Georgia Power Company has received the results of the reanalysis of the pipe support design for the Vogtle Project. Bechtel's analysis has indicated that the support system design is adequate and that it meets its design margins. Georgia Power Company has concluded that this event is not reportable pursuant to the requirements of 10 CFR 50.55(e) and 10 CFR 21. A copy of the evaluation summary report is attached for your information.

This response contains no proprietary information and may be placed in the NRC Public Document Room upon receipt.

Yours truly,

D. O. Foster

REF/DOF/tdm

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EVALUATION FOR A SUBSTANTIAL SAFETY HAZARD
EVALUATION FOR A SIGNIFICANT DEFICIENCY

Pipe Hanger Support Calculations

Initial Report:

On March 25, 1983, Mr. C. W. Hayes, Georgia Power Company's Quality Assurance Manager for the Vogtle Project, reported a potential deficiency to Mr. Greg Neilfelt of the USNRC concerning missing calculations for 12 pipe supports.

Background Information:

Prior to March 1983, the Bechtel Pipe Stress and Support Group (PSSG) followed a design procedure for pipe supports which is defined in the attached flow chart. As part of this procedure, miscellaneous steel design calculations were retained within the PSSG until the related support design was issued for construction. The design drawings and the pipe stress analysis calculations were retained under the control of the Bechtel Home Office Project Administration (PA). When the pipe support design was issued for construction all associated calculations and design drawings were transferred to the Bechtel Project Field Engineering (PFE) office.

In March 1983, while assembling calculation packages for transfer to the Bechtel PFE Bechtel Home Office Engineering discovered cases where pipe support miscellaneous steel design calculations were not available and the associated pipe support drawings had been issued for construction.

Engineering Evaluation:

As a result of this event, a review was performed of the miscellaneous steel design file for all existing pipe supports. A total of 16,856 pipe supports addressed by 1,796 miscellaneous steel calculations were reviewed. It was discovered that miscellaneous steel calculations were either lost or misplaced for 141 ASME Section III supports and 121 ANSI B31.1 supports.

New miscellaneous steel calculations were performed for the 262 pipe supports for which no calculations were available. These new calculations were based on the latest piping stress analysis input and the existing miscellaneous steel design shown on the latest pipe support drawing revisions.

Based on this review and results of the new calculations, it was concluded that this condition would have no impact on the safety of plant operation because the pipe support designs were found to be adequate to meet the latest piping stress analysis and included adequate design margins.

Evaluation of Quality Assurance Program:

The Southern Company Services' Quality Assurance Department has reviewed this condition and has concluded that since the calculations were not maintained and controlled by Bechtel PA through the Document and Data Control Center (DDC), a QA Program breakdown did occur.

However, since the new calculations revealed that the designs in question were adequate, the QA breakdown does not represent a reportable event in the design of Plant Vogtle.

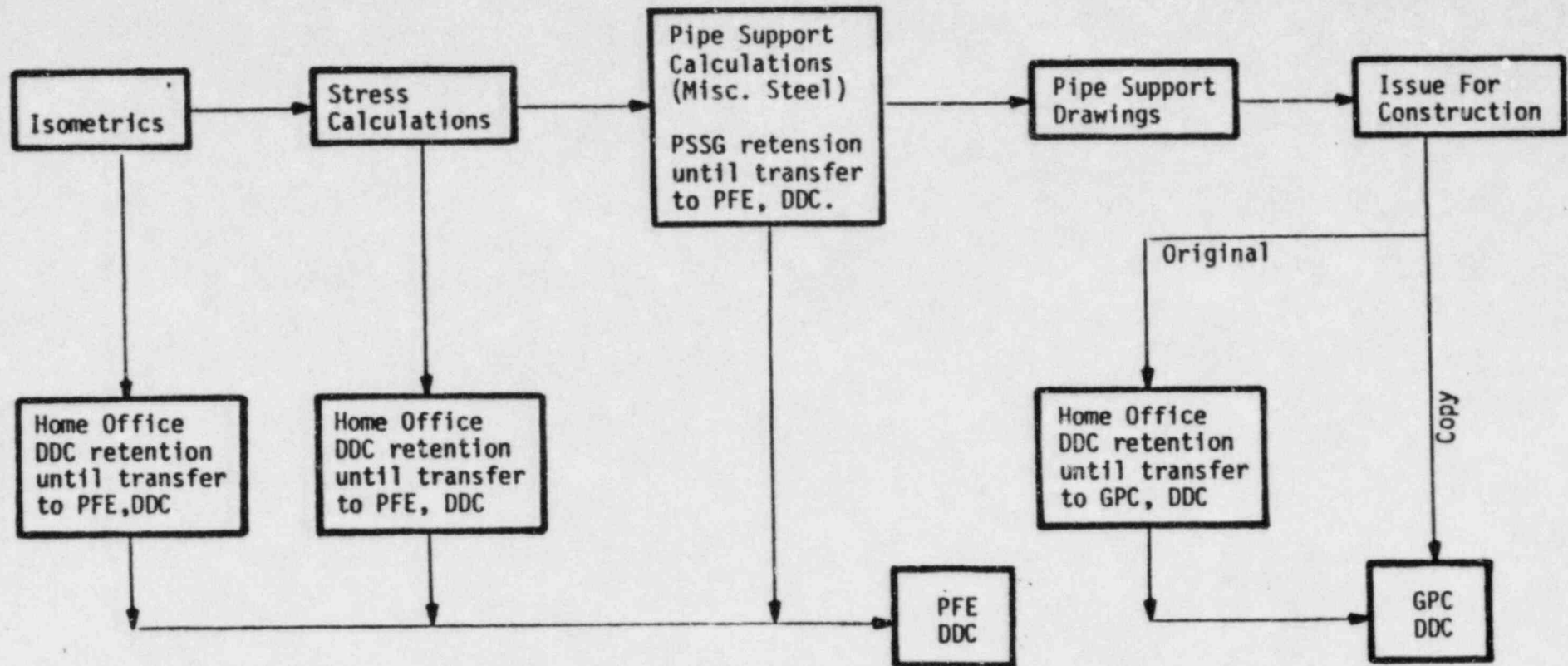
Conclusion:

The NRC has defined "significant" as having an effect, or likely to have an effect on, or influence, the safe operation of the facility in an adverse manner. Based on the evaluation provided by Bechtel, there will not be any adverse effect on the facility, therefore a significant deficiency or substantial safety hazard cannot exist and this event is not reportable.

Corrective Action:

Immediately upon discovery of this condition in March 1983, all miscellaneous steel calculations for pipe supports were placed under the control of Bechtel Home Office PA. All calculations are submitted to PA immediately upon completion. This new procedure is structured to ensure that no calculations are misplaced or lost and that they are properly transferred to Bechtel PFE as part of the total analysis and design package when the pipe support drawing is released for construction. The personnel involved have been instructed in the requirements of this new procedure.

PIPE SUPPORT DESIGN FLOW CHART*



*Prior to corrective action. After corrective action PSSG no longer retains pipe support calculations. These are retained by Home Office DDC as is the procedure for other activities.