JUN 21 1976 Central Tele

K. R. Goller, Assistant Director for Operating Reactors Division of Operating Reactors

OCONEE UNITS 1, 2 AND 3 - SPENT FUEL CASK HANDLING TECHNICAL ASSISTANCE REQUEST NO. ORB1-1327

Plant Name: Oconee Units 1, 2 and 3 - Spent Fuel Cask Handling

Document Reviewed: Duke Responses to Questions dated 3/19/76 and 41/3/75

Docket Nos.: (50-269) 50-270 and 50-287

Responsible OR Branch and Project Manager: ORB-1, G. Zech

Requested Completion Date: 7/1/76

Description of Response: First Round Questions

Review Status: Awaiting Information

In response to your request the Engineering Branch has reviewed the information in the reference cited above in the areas of structural and mechanical engineering. Adequate responses to the questions herewith attached are required before we can complete our review.

Original signed by Darrell G. Elsenhut

D. G. Eisenhut, Assistant Director for Operational Technology Division of Operating Reactors

Ficlosure: As serted

cc: V. Stello, DOR

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DISTRIBUTION:

Docket Nos. 50-269

50-270

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Form AEC-318 (Rev. 9-53) AECM 0240

DIVISION OF OPERATING REACTORS
OCONEE UNITS 1, 2 AND 3
DOCKET NOS. 50-269, 50-270, AND 50-287
REQUEST FOR ADDITIONAL INFORMATION

- Describe the mathematical model used for the analysis of the storage racks.
- 2. Provide an analysis for the case where the cask tips and one end impacts on a few cells affecting the minimum edge-to-edge distance between fuel assemblies before the other end comes into contact with the fuel storage cells. Tabulate the highest stresses, the lowest stress margins, the greatest deformations and identify the locations where each occur.
 - 3. Provide a summary of the stress analysis which was performed for the uniform drop of the cask, yoke and load block on the fuel storage cells. Tabulate the results as required in the item above.
 - 4. Describe the critical drop accident for the cask, yoke and load block which may occur during spent fuel handling. Justify your response using the dynamics of the drop and state the number of cells which are affected. Tabulate the results required in item 2.
 - 5. Discuss the behavior of the assemblies which are located within and outside the boundary of the dropped cask during both the uniform and concentrated cask drop.