

P. O. BOX 33189

DUKE POWER COMPANY
GENERAL OFFICES
422 SOUTH CHURCH STREET
CHARLOTTE, N. C. 28242

TELEPHONE: AREA 704
373-4011

February 18, 1985

OGTP-845-N-57

50-458

Mr. C. H. Berlinger
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

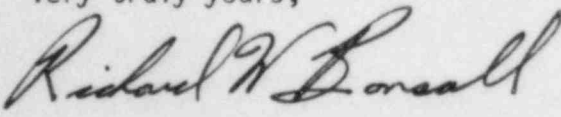
Re: TDI Diesel Generator Owners Group
Request for Additional Information
File: MTS-4086

Dear Mr. Berlinger:

Per a verbal request from your staff, enclosed is additional information regarding the torsional dynamic analysis of the Riverbend crankshaft.

Should you have any questions, please call R. J. Deese at (704) 373-3489.

Very truly yours,

for 

C. L. Ray, Jr.
Technical Program Director
TDI Diesel Generator Owners Group

CLR/RJD/cr

cc w/attachment: John Hamilton
W. W. Laity, PNL
H. R. Denton
J. C. Kammeyer

8502200223 850218
PDR ADOCK 05000458
S PDR

8031
1/1

TABLE 2.1
STIFFNESS AND INERTIAS FOR TORSIONAL DYNAMIC ANALYSIS OF
DSR-48 13-INCH BY 12-INCH CRANKSHAFT AT RIVERBEND

Inertia Location	Inertia (lb. ft. sec ²)	Stiffness (ft. lb./rad)
Front Gear	6.8	58.1×10^6
Cylinder No. 1	49.2	84.7×10^6
Cylinder No. 2	47.9	84.7×10^6
Cylinder No. 3	47.9	84.7×10^6
Cylinder No. 4	47.9	84.7×10^6
Cylinder No. 5	47.9	84.7×10^6
Cylinder No. 6	47.9	84.7×10^6
Cylinder No. 7	47.9	84.7×10^6
Cylinder No. 8	50.1	76.9×10^6
Flywheel	426.5	309.7×10^6
Generator	4976.1	