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 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina
 AUTH. NAME: MCDUFFIE, M. A. AUTHOR AFFILIATION: Carolina Power & Light Co.
 RECIP. NAME: DENTON, H. R. RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation, Director

SUBJECT: Responds to request for addl info re insp intervals on low pressure turbine rotors. New partial integral rotors purchased & undergoing evaluation. One-half critical crack depth for shrunken discs exceeds 50 yrs.

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Carolina Power & Light Company

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Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NO. 1 - DOCKET NO. 50-400
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
MATERIALS ENGINEERING BRANCH

Dear Mr. Denton:

In response to a request by Mr. J. O. Schiffens (Materials Engineering Branch) Carolina Power & Light Company (CP&L) hereby submits additional information relative to the inspection intervals on Shearon Harris Nuclear Power Plant (SHNPP) low pressure turbine rotors. Carolina Power & Light Company (CP&L) has recently purchased new partial integral rotors and is currently in the process of evaluating them. We expect these new rotors to perform better than rotors previously planned for SHNPP, especially as regards to rotor disk keyway cracking. As requested by the reviewer, calculations have been completed to determine the minimum time required to reach one-half critical crack depth for the "shrunk-on" discs. Preliminary results indicate that the minimum time required to reach one-half critical crack depth is in excess of fifty (50) years (calculated per Westinghouse MSTG-1-P Alternate Method).

If you have further questions or require additional information, please contact our staff.

Yours very truly,

M. A. McDuffie
M. A. McDuffie
Senior Vice President
Nuclear Generation

JHE/cfr (8502NLU)

cc: Mr. B. C. Buckley (NRC)
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