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

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

September 4, 1980

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. B. J. Youngblood, Chief
Licensing Projects Branch No. 1

Re: McGuire Nuclear Station
Docket No. 50-369

Subject: Low Pressure Turbine Disc Integrity

Dear Mr. Denton:

Please find attached information on the low pressure turbine disc integrity as requested by a letter dated August 27, 1980 from Mr. Robert L. Tedesco of your Staff. Please advise us if you have any questions.

Very truly yours,

William O. Parker, Jr.

LJB:scs
Attachment

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MCGUIRE NUCLEAR STATION
UNIT 1

Response to NRC Telecopy of August 21, 1980
Low Pressure Turbine Disc Integrity

I.

A. Westinghouse turbine - 1800 RPM Tandem Compound, Sextuple Flow

Serial Numbers: Unit 1

No. 1 LP 23-A-4352
No. 2 LP 23-A-4353
No. 3 LP 23-A-4354

B. Enclosure 1, attached, is a computer printout of the requested data. This information is proprietary and is accompanied by an affidavit signed by Mr. R. W. Gaul of Westinghouse which requests that this information be withheld from public disclosure. Enclosure 2 is a non-proprietary version of the information.

II. Preservice inspection has not been performed on any of the McGuire LP turbine rotors.

III. Westinghouse has indicated that LP turbine discs 1 thru 4 have sufficient moisture in the hub to cause a propensity for stress corrosion cracking.

IV. Critical structures exposed to turbine missiles were designed to withstand their impact. To minimize exposed structures, a peninsular turbine orientation was used. Refer to the following McGuire FSAR sections for a description of our analysis and evaluation.

Sections 3.5.1.2, 3.5.2.7, 3.5.5, 3.5.6

Sections 10.2.2, 10.2.3, 10.2.4, 10.2.5