

DUKE POWER COMPANY

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NUCLEAR PRODUCTION

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August 14, 1984

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

Attention: Ms. E.G. Adensam, Chief
Licensing Branch No. 4

Re: Catawba Nuclear Station
Docket Nos. 50-413 and 50-414

Dear Mr. Denton:

In response to an August 9, 1984 telephone request by Melanie Miller of your staff, attached is the Failure Analysis Associates report entitled "Torsograph Test Of Emergency Diesel Generator 1A At Catawba Nuclear Power Station". Please note that this test was made while the Catawba Nuclear Station 1A diesel generator was operating with TDI style "AN" piston skirts. These piston skirts were replaced during the July 1984 inspection with style "AE" piston skirts. This replacement will not affect the results of this test as the weight differences are insignificant.

Also, a summary of the 1A diesel engine operational load history (from July 17, 1984 letter to C.L. Ray, TDI Owners Group from G.W. Hallman) is described as percentages below. The diesel had been run about 157.5 hours by various groups such as construction, startup, and TDI before this "operational load history" log was begun. This 157 hours is considered as No Load for these calculations. Start No. 61 should show a run duration of 35 hours rather than 43. The percentages listed refer to the 705.22 hours represented in the July 17, 1984 Operational Load History plus the 157.5 hours, (862.7 total). This 50 hours more than the 813 hour figure used for the extended run, is for Engineered Safety Feature (ESF) and Black Out (B/O) testing done before engine disassembly.

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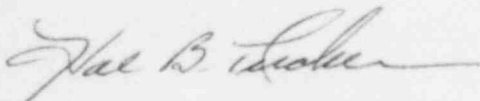
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Generator Load (KW)	Hours at Load	&% of Total (862.72 hours)
7700	4.75	0.55 %
7000	656.58	76.11 %
6500	6.00	0.70 %
5000	1.00	0.12 %
4500	1.17	0.14 %
4100	1.10	0.13 %
4000	29.00	3.36 %
3000	0.25	0.03 %
(No Load)	162.87	18.88 %
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Total -	862.72	100.00 %

77.36% of all hours run before the tear down inspection were above the new 5750 KW (185 BMEP) limit.

We hope that this information satisfies the NRC needs. If we can be of further service, please inform us.

Very truly yours,



Hal B. Tucker, Vice President
Nuclear Production

HBT:RPM:rrm

cc: Mr. James P. O'Reilly, Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
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NRC Resident Inspector
Catawba Nuclear Station

Melanie Miller, Project Manager
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