



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

MAY 20 1985

Docket No.: STN 50-454

Mr. Dennis L. Farrar  
Director of Nuclear Licensing  
Commonwealth Edison Company  
Post Office Box 767  
Chicago, Illinois 60690

Dear Mr. Farrar:

Subject: Byron Station, Unit 1, License Condition on Turbine Missiles

The full power license for Byron Station, Unit 1, issued February 14, 1985 contained the following condition:

2.C.(14) "Turbine Missiles (Section 3.5.1.3, SSER #5)

The licensee shall volumetrically inspect all three low pressure turbine rotors by every third refueling outage, until a turbine system maintenance program based on the manufacturer's calculations of missile generation probabilities is approved by the staff."

Since the issuance of this license condition, we have reviewed and approved the manufacturer's (Westinghouse) generic turbine integrity methodology which provides procedure for estimating crack growth, missile generation probability, and volumetric inspection intervals. By letter dated September 26, 1984, you committed to a turbine inspection program based on the Westinghouse methodology. Westinghouse has used these procedures to determine the inspection interval for all three low-pressure turbine rotors at Byron Unit 1 such that the probability of missile generation will keep below  $10^{-4}$  events per year for the life of the plant. Presently, the Westinghouse analysis indicates that one rotor be inspected at each refueling outage. This would result in all three rotors being inspected by the end of the third refueling outage. You have also committed to use the Westinghouse methodology in the future to determine new inspection intervals based on the existence or lack of flaws observed during the inspection.

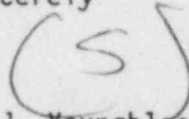
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Dennis L. Farrar

We conclude that you have committed to follow the acceptable Westinghouse methodology to determine the low-pressure turbine rotor inspection interval; therefore, License Condition 2.C.(14) has been satisfied.

Sincerely



B. J. Youngblood, Chief  
Licensing Branch 1  
Division of Licensing

cc: See next page

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
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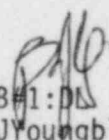
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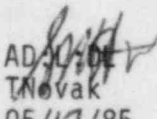
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BYRON

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