

February 11, 1985

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

Subject: Byron Generating Station Units 1 and 2

Interim Operation of HVAC Systems
NRC Docket Nos. 50-454 and 50-455

References (a): January 11, 1985 letter from T. R. Tramm

to H. R. Denton.

(b): August 11, 1984 letter from T. R. Tramm

to H. R. Denton.

Dear Mr. Denton:

This letter provides additional information regarding the interim operation of the Byron HVAC systems. Temporary leak limits are being imposed pending completion of testing on the auxiliary building ventilation system on or before July 1, 1985. The status of the control room intake damper replacement is also described.

As indicated in reference (a) conventional dose assessment calculations indicate that offsite doses could exceed the regulatory limits following a postulated LOCA if the auxiliary building ventilation system is not operable and there is significant leakage from ECCS systems carrying highly radioactive liquids outside the containment. There are sizeable conservatisms in these calculations and there is reason to believe that offsite doses would not reach those levels even if such an accident were to occur. To provide additional assurance that offsite doses would be acceptable during all postulated accidents, special interim limits will be established until testing of auxiliary building ventilation systems is complete.

The enclosed Figure 1 indicates the allowable power level at any given auxiliary building ECCS leakage rate without filtration of the auxiliary building air. The notes on the figure explain the basis for this limit. Prior to exceeding 30% power at Byron 1, the leak rate from ECCS systems in the auxiliary building will be determined as described in reference (b). Until testing of the auxiliary building ventilation system is complete, Byron 1 will not be operated at power levels exceeding 30% unless it can be shown that the auxiliary building ECCS leakage is below the corresponding limit shown in Figure 1. Once the Byron 1 auxiliary building ventilation equipment is declared operable, these limits will no longer apply. Because of the short duration of this limitation, no ongoing surveillance will be conducted once the leak rate has been found to be acceptable for a given power level.

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All of the new dampers will be installed by the end of the first refueling outage. These matters have been discussed with the NRC Staff. The actions described here will be implemented on the basis of our understanding that they are acceptable to the NRC. Please direct further comments or questions to this office.

One signed original and fifteen copies of this letter are provided for NRC review.

Very truly yours,

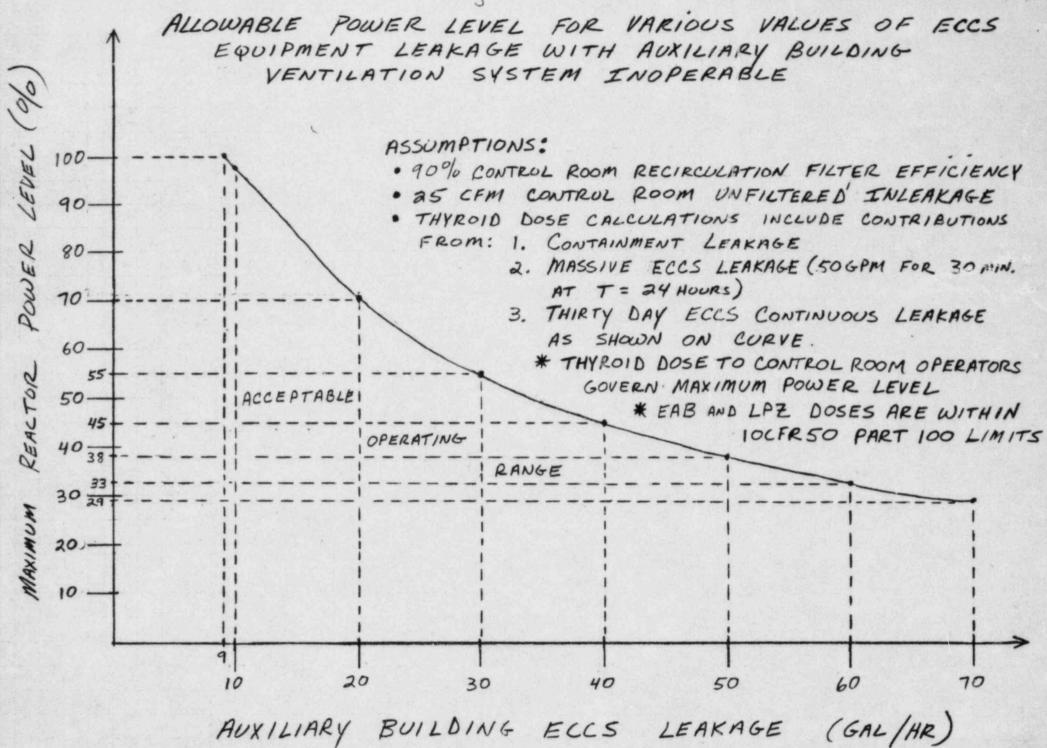
T.R. Tramm

T. R. Tramm

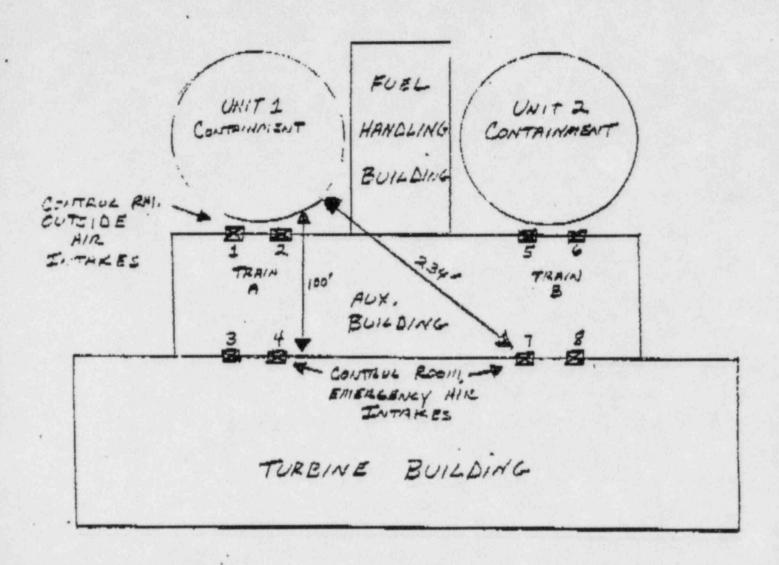
Nuclear Licensing Administrator

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cc: Resident Inspector Byron



LOCATION OF CONTROL ROOM HIR INTAKES BYRON STATION



- 1. PURGE MODE AIR INTAKE
- 2. NORMAL MODE AIR INTAKE
- 3. PURGE MODE AIR EXHAUST
- 4. EMERGENCY MODE AIR INTAKE
- S. NORMAL MODE AIR INTAKE
- 6. PURGE MODE AIR INTHEE
- 7. EMERGENCY MODE AIR INTAKE
- 8. PURGE MODE AIR EXHAUST

