



Commonwealth Edison
1400 Opus Place
Downers Grove, Illinois 60515

January 2, 1991

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Subject: LaSalle County Station Units 1 and 2
Response to Request for Additional
Information Concerning Proposed Amendment
to the Technical Specification for Facility
Operating License NPF-11 and NPF-18
NRC Docket Nos. 50-373 and 50-374

- References: (a) W.E. Morgan letter to T.E. Murley dated
July 26, 1989.
- (b) W.E. Morgan letter to U.S. NRC dated
July 9, 1990.

Dear Sir:

References (a) and (b) transmitted Commonwealth Edison's proposed
Technical Specification Amendment to allow continued plant operation for a period of
12 hours with the Main Steam Tunnel High Ambient Temperature and High
Ventilation Systems Differential Temperature Trips Bypassed.

The following attachment provides Commonwealth Edison's LaSalle
Station response to the NRC question concerning the expected radiation dose rates
in the Unit 1 and 2 Main Steam Tunnels during power operation.

Please direct any questions you may have regarding this matter to this
office.

Very truly yours,

Wayne E Morgan

W.E. Morgan
Nuclear Licensing Administrator

Attachment

cc: J. Hickman - Project Manager, NRR
Senior Resident Inspector - LSCS

WM:lmw
ZNL654/10

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ATTACHMENT

NRC Question:

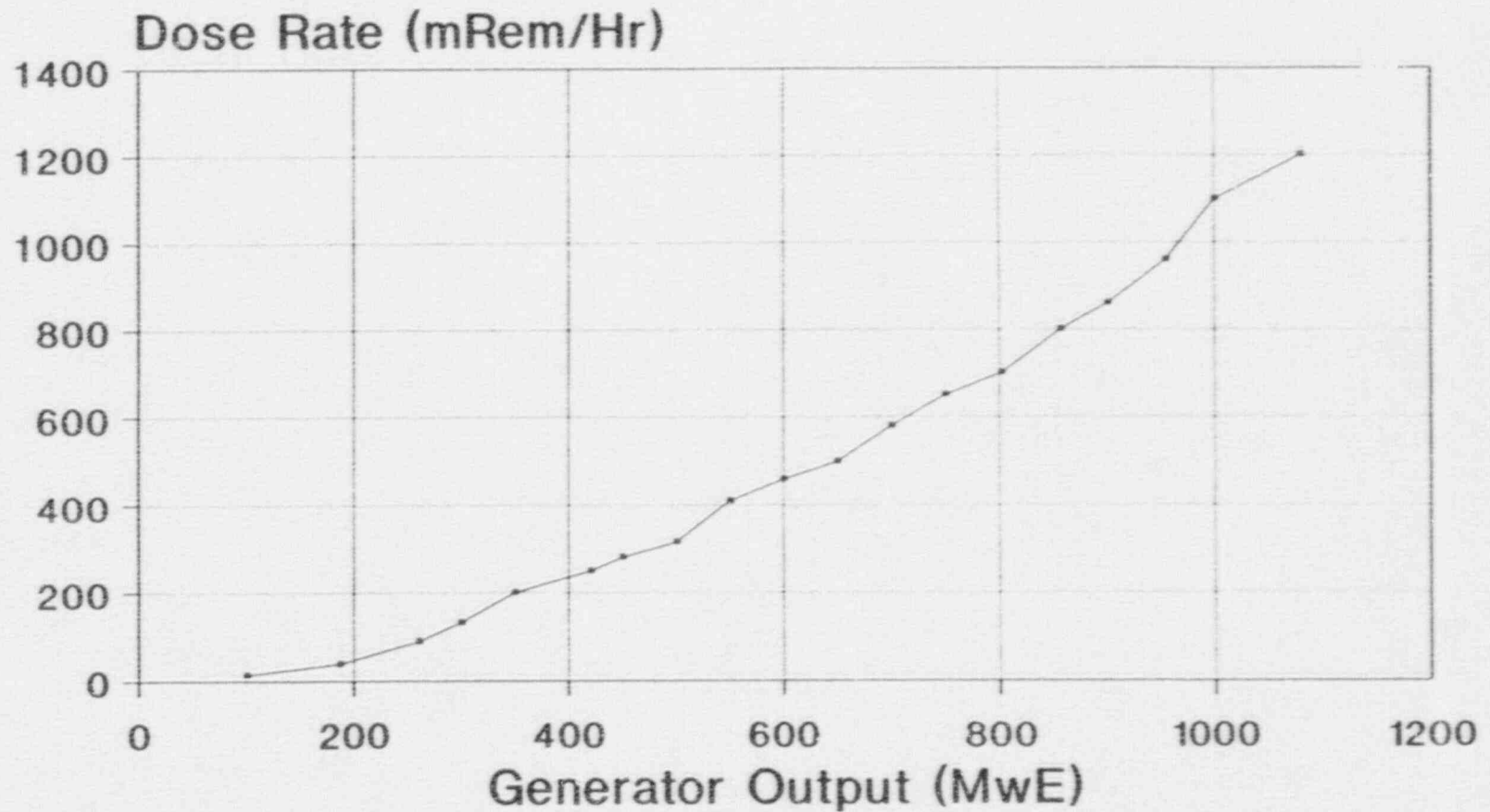
What is the radiation dose rate in the Units 1 and 2 Main Steam Tunnel's (MST) during power operation?

Station Response:

During the Unit 2 Startup Test Program in 1984 a survey of the MST dose rates at various power levels was completed by the station Radiation Protection Department. The dose rates in the MST are due almost entirely to N16 gamma rays. Since, the level of N16 present in the steam in a BWR is a function of reactor power, it can be assumed that this data may also be applied to Unit 1. The data indicates that the dose rate varies directly with power from less than 50 mRem/hour at 100 MWe to 1200 mRem/hour at 1080 MWe (refer to the attached graph of Dose Rate vs. Power).

As can be seen from the data provided, it can be expected that any entries made into the MST while the reactor is at high power, will result in significant man rem accumulations for plant personnel. It should also be noted that during the period of time that the reactor building ventilation system is shutdown it is anticipated that the MST tunnel temperatures will exceed 150°F. These elevated temperatures will help to create a hostile work environment in the MST that will add to the danger of performing periodic inspections.

LaSalle County Station Unit 2 Main Steam Tunnel Dose Rate vs Power



Data From 1984