

UC 110

UNIT 2 ROOF VENT MONITOR
RELEASE RATE

February 10, 1976

UNIT 2 ROOF VENT MONITOR
RELEASE RATE
UNIT 2 ROOF VENT MONITOR
RELEASE RATE
UNIT 2 ROOF VENT MONITOR
RELEASE RATE

Id E

UNIT 2 ROOF VENT MONITOR RELEASE RATE

UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE

Reference: UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE

UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE

UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE

UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE

UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE
UNIT 2 ROOF VENT MONITOR RELEASE RATE

Analysis of Occurrence:

The Unit 2 roof vent monitor struck at approximately 10:00 AM. The peak instantaneous release rate was approximately 1000 gpm. This release rate is approximately 10 times the technical specification limit. The Unit 2 roof vent monitor and Unit 3 roof vent release rates were similar during the period that the Unit 2 roof vent release rate was high.

of Top. Cantor

42-

Reportable Occurrence - Prompt Notification 2-76-11/1P

In less than 10 minutes the calculated Unit 2 roof vent release rate was less than Technical Specification limits. The total length of time that the Unit 2 roof vent release rate was higher than normal less than 60 mins.

Initial analysis of the particulate filters and Iodine cartridges indicated no significant increase in particulate or iodine release rates. An isotopic analysis was run on a gas sample obtained during the release (about the midpoint of the release). It indicated only Xe ¹³⁵ and Xe ¹³⁸, in a 1.63 to 1 ratio. It was estimated that the activity released due to this spike was about 20 curies (based on Cross Radiation Roof Vent Monitor Readings).

The release calculations for roof vent releases contain an MPC of 3.3.38 uCi/cc at a 10 min old off gas mixture per Technical Specification. However, in this case the most limiting MPC for the major activity would be 3.37 uCi/cc. If the most limiting MPC of activity measured is used in the release calculation, the Technical Specification release limit is exceeded.

Based on the above, the short term length of the release and the fact that the major measured activity were noble gases, the effects from this release should be very minimal.

Corrective Action:

The release was short term in nature; no immediate corrective action was possible.

Failure Data:

None Similar.

Very truly yours,

W. T. Ulrich, Superintendent
Fech Bottom Atomic Power Station