



Commonwealth Edison
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030-18425
12-05650-19
A
Ed 5/31/89

February 15, 1985

U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Attention: Materials Licensing Section

Subject: Application for Amendment
Zion EOF Byproduct License
12-05650-19

Dear Sir:

Surveys of the Zion EOF storage room performed subsequent to the installation of the 20 Curie Shepard beam calibrator, Model 28-88, indicated that the exposure rates at several areas at high elevations adjacent to the shield wall exceed 2 Mr/h when the calibrator is in use. The specific values are shown on the attached survey sheet. Due to these elevated exposure rates, a procedural change in the access control to the storage room is required.

A "Caution-Radiation Area" sign has been posted at the main entrance to the storage area. When the source is exposed, a sign will be posted stating that access to the storage room is restricted to personnel properly badged and trained and who have received prior authorization to enter the area. An individual trained in the use of the calibrator will be in or near the storage room whenever the calibrator is in use. If the calibrator operator is not in the storage area when the source is exposed, the door to the storage room will be locked.

Please direct any questions regarding the application to this office.

Enclosed is a check for \$60 per Section 170.31

Respectfully,

Greg Alexander

Greg Alexander
Nuclear Licensing Administrator

RECEIVED
MAR 07 1985
REGION III

Attachment

8504110410 850327
REG3 LIC30
12-05650-19 PDR

CONTROL NO. 78463

9783N

ATTACHMENT 1

SURVEY PERFORMED WITH AN RO2.

Unless indicated
all readings
are waist high
and reported in
mR/hr.

Stairwell

Microwave
Room

GSEP Storage

Hallway

(11.5 ft ABOVE FLOOR, 14 ft FROM WALL - 1.6 m²/h)

Calibration Room/Storage Room

(11.5 ft ABOVE FLOOR - 2.9 m R/h)
AGAINST THE WALL
↓
0.5 m R/h → DECK

1.5 mR/hr

$< 30 \text{ mR/h}$ 5 mR/h
 Source
 At 1 ft - 64 R/h
 From Source

AT 4 ft - 5 R/h
AT 5 ft - 3.2 R/h

At 9 ft - 1.1 R/h
At 10 ft - 0.9 R/h

Conference Room

1016

 1.0 mR/h

(12 ft. ABOVE FLOOR - $9 \text{ m}/4$) $\xrightarrow{0.6 \text{ m}/4}$

1015

1018

Grounds Outside Building

CONTROL NO. 7 8 4 6 3

- area film badge