



Lee Hospital

320 MAIN STREET JOHNSTOWN, PA 15901 (814) 533-0123

August 28, 1985

MS 16
KC

United States Nuclear
Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

REF: Control #10402
NRC License #37-05501-02

ATT: John E. Glenn, Ph.D.
Nuclear Material Section B

Dear Dr. Glenn:

Enclosed is the additional information requested by Dr. Picone for continued processing of the requested amendment to our radioactive materials license.

1. Emergency Procedures for 133 Xenon Use

In case of an accidental release of 133 Xenon gas, the following procedures will be used:

- a. The floor vent will be turned on (see note);
- b. Doors A, B and C will be closed (see diagram);
- c. A survey will be performed using a GM survey meter;
- d. Personnel will be evacuated, if necessary, until radiation levels return to normal.

Note: The floor vent and the exhaust hood are switched on simultaneously via 3-way switches located in the scanning lab and the hot lab. The fan unit is located on the roof of the building. Access to this area is restricted to maintenance personnel via a locked doorway. Exhaust rates are checked semi-annually.

2. In reference to the Nuclear Medicine Air Flow Diagram, the recirculated air is a closed/sealed system used exclusively for the scanning area. The recirculation system utilizes a cooling unit to provide additional air conditioning during peak loads in the lab. Hence, the dotted line on the diagram showing the only connections. 04202

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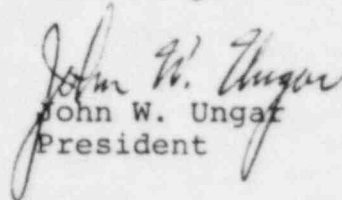
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John E. Glenn, Ph.D., USNRC
August 28, 1985
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3. We will comply with all manufacturer's instructions for using the Lineator device. This includes a conventional linearity test using a Tc source, initial readouts using the Lineator and the establishment of ratios for subsequent tests using the device.

Sincerely,

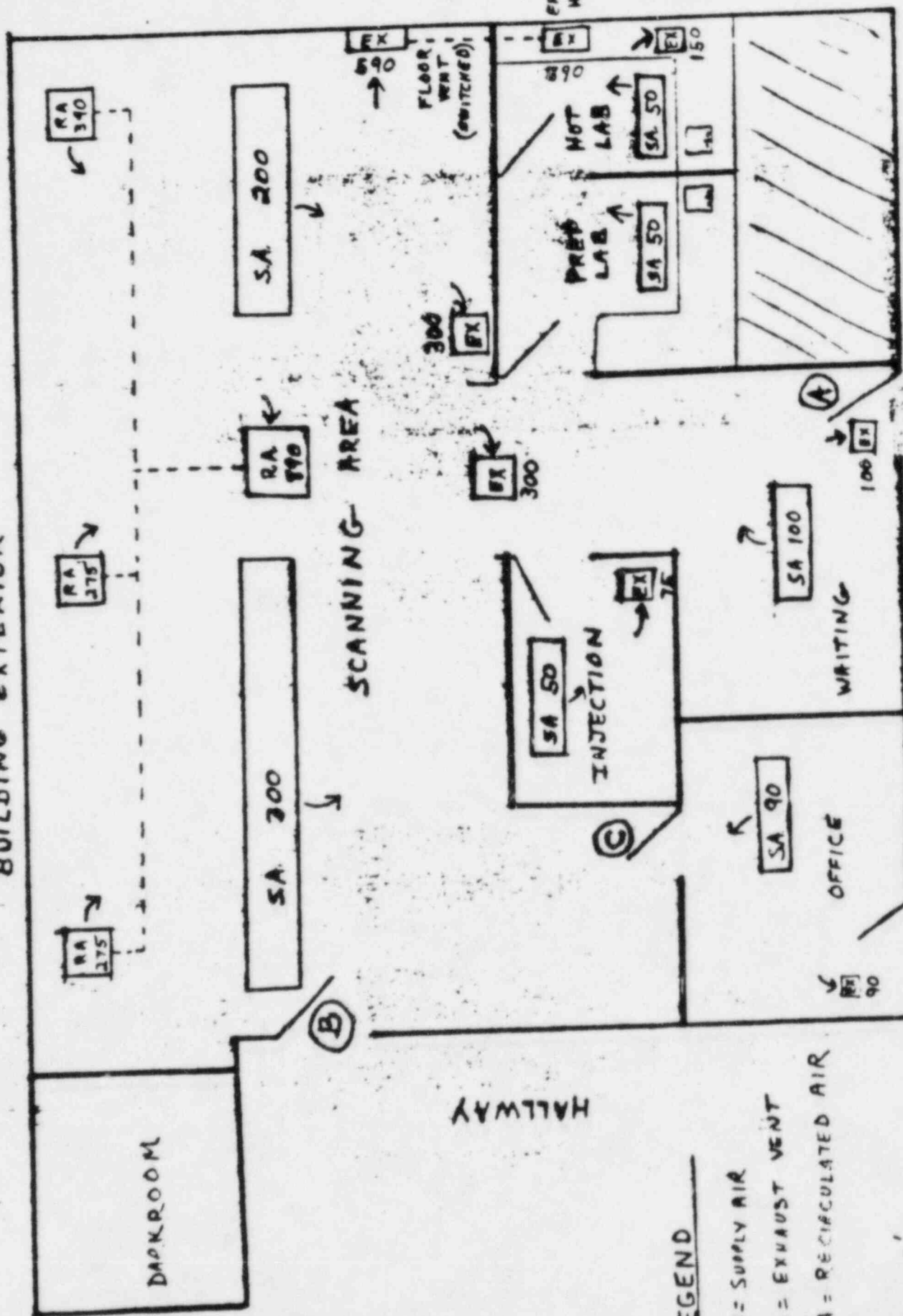

John W. Ungar
President

mab

Enc.

NUCLEAR MEDICINE AIR FLOW DIAGRAM

BUILDING EXTENSION



[ALL DRAWINGS ARE C.P.M.]

HALLWAY

$$1'' = 25'$$

DATE 8/22/85
TIME 11:15 ☒ A.M.
☐ P.M.

TELEPHONE OR VERBAL CONVERSATION RECORD

☐ INCOMING CALL

☒ OUTGOING CALL

☐ VISIT

PERSON CALLING

OFFICE/ADDRESS

PHONE NUMBER

EXTENSION

Piccone

NRC - Region I

PERSON CALLED

OFFICE/ADDRESS Lee Hospital/
Radiol. Dept., 320 Main St.
Johnstown, PA 15901

PHONE NUMBER

EXTENSION

Dr. Nido, RSO

(814) 533-0123

CONVERSATION

SUBJECT

Amendment request for new facility and use of Linerator

SUMMARY

The following additional information was requested:

- ① Confirm that manufacturer's instructions will be followed for Linerator
- ② For Xenon data submitted - supplement with
 - (A) provide emergency procedures
 - (B) describe use (when) of the floor vent
 - (C) where is the recirculated air re-circulated - in scanning room alone or hospital-wide

Refer to mail control number 104202

REFERRED TO:

ACTION REQUESTED

Written documentation of the above

ACTION TAKEN

☐ ADVISE ME OF ACTION TAKEN.

INITIALS

J. M. P.

DATE

8/22/85

INITIALS

DATE

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Lee Hospital

- ① Liner - follow manufacturer's instructions
- ② send copy of closeout survey
- ③ Emergency procedures for Xe-133 in new facility

$$35 \times 17.5 = 612.5 \text{ ft}^2$$

$$4900 \text{ ft}^3 = 189\% \text{ recirculated}$$

$$\frac{4.4 \times 10^7}{1.7 \times 10^6} = 2.35 \times 10$$
$$= 23.5$$

$$3.14 \times 10^{-7}$$

Unrestricted - from Camera Room

$$1.66 \times 10^6 \text{ nCi/yr.}$$

$$V = 600 \times 1.49 \times 10^{12} = 8.94 \times 10^{12}$$

$$\frac{1.66 \times 10^6}{8.94 \times 10^{12}} = 1.8 \times 10^{-7}$$

-
- ① Liner
 - ② Emergency Procedures
 - ③ Where recirculating

A. Nido
(814) ~~531-5154~~
533-0123