**Section 390.70 Personnel Training**

a) The registrant shall ensure that all personnel who operate particle accelerators:

1) Receive instruction in the fundamentals of radiation safety including:

A) Characteristics of beta, gamma and x-radiation;

B) Units of radiation dose equivalent (sievert or rem);

C) Hazards of excessive exposure to radiation;

D) Levels of radiation from particle accelerators; and

E) Methods used to limit radiation doses at the specific facility to be operated, including:

i) Shielding;

ii) Interlock system;

iii) Safety rules; and

iv) Radiation monitoring equipment.

2) Receive instruction in the use and care of individual monitoring devices used at the facility.

3) Are knowledgeable of:

A) The location and use of all operating controls;

B) The pertinent requirements of 32 Ill. Adm. Code: Chapter II, Subchapter b; and

C) The registrant's written operating and emergency procedures.

4) Receive at least 1 month of on-the-job training before assuming operational responsibility.

b) All operator's assistants or helpers shall receive the training listed in subsections (a)(1) through (a)(3) above.

(Source: Amended at 18 Ill. Reg. 3143, effective February 22, 1994)