



**GUIDELINES FOR ANALYTICAL X-RAY
EQUIPMENT
OPERATING PROCEDURES AND OPERATOR
TRAINING**

Rules 486 and 508 - Operating Procedures

The operating procedures should include information such as:

- A. Qualified operators
- B. Procedures for becoming qualified and authorized operators
- C. Wearing of personnel radiation monitoring devices
- D. Procedures regarding maintenance, service and electrical lock out
- E. Proper notification of the Radiation Protection Supervisor before maintenance and service procedures begin
- F. Emergency procedures

Rules 485, 507 and 93 - Operator Training

A training program may involve the following. Some of the items may not apply in certain cases:

- I. Fundamentals of Radiation Safety
 - A. Characteristics of x radiation
 - B. Units of radiation dose
 - C. Biological effects
 - D. Hazards of excessive radiation exposure
 - E. Normal levels of radiation from the equipment and potential levels during accident conditions
- II. Radiation Detection
 - A. Use of personnel monitoring devices
 - B. Use of radiation monitoring instruments
- III. Specific Written Procedures for the Operation and Control of the X-Ray Equipment, Including Maintenance and Emergency Procedures
- IV. Pertinent Federal and State Regulations and Recommendations

We recommend documentation indicating that each operator has received the appropriate training be maintained in facility records.