

Building: _____	Room #: _____	Date: _____
Surveyor: _____		Authorized User: _____
Name of Instrument: _____		Model #: _____
Tube Type: _____	Open Beam?	YES      NO

## Equipment Requirements (WAC 246-228-020)

**Safety device** prevents entry of any portion of an individual's body into the primary beam path?      Yes      No

**Warning devices** (for open beam) indicate:

- |  |     |    |
|--|-----|----|
| 1. X-ray tube status – On/Off:                           | Yes | No |
| 2. Shutter status – Open/Closed:                         | Yes | No |
| 3. Fail safe characteristics (equipment after 1/1/1976): | Yes | No |

**Unused ports** are secured in the closed position to prevent casual opening:      Yes      No

**Labeling** – All analytical x-ray equipment should have readily discernible signs with the word(s):

- |  |         |        |
|--|---------|--------|
| 1. "CAUTION – HIGH INTENSITY X-RAY BEAM" on the source housing.  | Present | Absent |
| 2. "CAUTION RADIATION – THIS EQUIPMENT PRODUCES RADIATION WHEN ENERGIZED" near any switch that energizes the x-ray tube. | Present | Absent |
| 3. "CAUTION RADIOACTIVE MATERIAL" on source housing if the radiation source is a radionuclide.                           | Present | Absent |

**Warning Lights** with the words "X-RAY ON" that come on when the equipment is energized are located near:

- |  |         |        |
|--|---------|--------|
| 1. Any switch that energizes the tube and any port.                  | Present | Absent |
| 2. Any switch that opens a housing shutter, for radioactive sources. | Present | Absent |

All equipment installed after 1/1/1981 must have fail-safe characteristics on warning lights. Fail-safe is:      Present      Absent

At 5cm away from radiation source housing the radiation leakage is \_\_\_\_\_ mRem (must be <2.5mRem/hr)

At 5cm away from generator cabinet the radiation leakage is \_\_\_\_\_ mRem (must be <2.5mRem/hr)

## Facility Requirements (WAC 246-228-030)

**Surveys:**

Is there a daily use log present?	Yes	No
Has a survey been completed in the last 12 months?	Yes	No
Are there any changes since the last survey?	Yes	No

Is there a sign posted in each room or area stating "CAUTION – X-RAY EQUIPMENT"?      Yes      No

Do all users have documented instruction in the use of equipment?      Yes      No

## Operating Requirements (WAC 246-228-040)

Are **routine operating procedures** written and available to users?      Yes      No

## Personnel Requirements (WAC 246-228-050)

Is the list of personnel who are trained on equipment available?      Yes      No

Are personnel being monitored (for open-beam systems with no safety devices)?      Yes      No      N/A

**Comments/Deficiencies:**