

## **Appendix I**

### **Stipulations Governing Workplace and Shielding Planning for Radioactive Material or Equipment Capable of Producing Ionizing Radiation**

- I. Workplace floor plans and shielding planning for stationary use radioactive material or equipment capable of producing ionizing radiation shall include:
  - (1) description of the locations of radioactive material or equipment capable of producing ionizing radiation and perspective drawing;
  - (2) description of workplace surroundings (including upstairs and downstairs);
  - (3) materials and thicknesses for shielding surrounding the workplace;
  - (4) the directions of primary radiation beams;
  - (5) locations of entrance and exit gates;
  - (6) locations of lead glasses and the lead thickness equivalents; no requirements for the workplaces where include no such planning;
  - (7) locations of entrance and exit gates on which safety interlocks are to be installed;
  - (8) locations of entrance and exit gates on which radiation warning symbols shall be posted and warning lights shall be installed;
  - (9) description of radiation doses responding to uses or the process for calculating the shielding; and
  - (10) other relevant protection measures.
  
- II. Workplace planning for mobile use radioactive material or equipment capable of producing ionizing radiation shall include:
  - (1) description of workplace where radioactive material or equipment capable of producing ionizing radiation is used and of its surroundings;
  - (2) description of the directions of the primary radiation beams;
  - (3) description of radiation doses responding to uses or the process for calculating the shielding; and
  - (4) if mobile protective lead shielding is planned, the lead thickness equivalents or other related protective measures shall be noted.
  
- III. For radioactive material or equipment capable of producing ionizing radiation used for medical therapy, devices such as a monitor and an emergency shut-off unit, etc. shall be installed in the therapy room.
  
- IV. In a workplace where a high-energy radiation facility is used, an alarm, a monitor, an emergency shut-off unit and safety interlocks shall be installed.
  
- V. When radioactive material or equipment capable of producing ionizing radiation is regularly operated in the same location in a mobile configuration, it shall be regarded the same as

operated in a stationary configuration.

- VI. For equipment capable of producing ionizing radiation used for medical purposes, when there are two or more units installed in a therapy room or an X-ray room, each unit shall be equipped with a selector switch. Two or more units containing radioactive material may not share the same therapy room or X-ray room.