

WAC 246-226-030 Design requirements. (1) The location of a CT X-ray system must be designed and constructed:

(a) To provide for two-way verbal communication between the patient and the operator at the control panel;

(b) To allow the operator to continuously observe the patient from the control panel during irradiation using windows, mirrors, closed-circuit television, or an equivalent method; and

(c) With an alternate viewing system when the primary viewing system is electronic.

(2) After **January 1, 2017**, and within thirty days of first use of a CT X-ray system, the registrant shall complete and keep on file a radiation protection survey of the room and surrounding areas consistent with *National Council on Radiation Protection and Measurements Report #147* (2004). For CT X-ray systems in use before **January 1, 2017**, the registrant shall complete the radiation protection survey by **January 1, 2019**, and keep on file.

(3) For fixed or mobile CT X-ray systems:

(a) Installed after January 1, 2017, the operator's booth and surrounding occupied areas must be designed and constructed in accordance with the *National Council on Radiation Protection and Measurements Report #147* (2004);

(b) Protective barriers must be provided in the ceiling, floor, and walls of the CT X-ray system enclosure to ensure exposure does not exceed dose limits established in chapter 246-221 WAC; and

(c) The control panel must be shielded by a protective barrier that cannot be removed from a protective position between the operator and the radiation source during CT X-ray system operation.

(4) The registrant shall submit a revised radiation shielding plan for department review in accordance with WAC 246-225-030 after replacement of the CT X-ray system, or any change in the CT X-ray system room's construction or surrounding rooms' construction.

(5) Rooms in which a portable CT X-ray system is used are exempt from the requirements of subsections (2), (3), and (4) of this section. However, the operator must be protected to ensure exposure does not exceed dose limits established in chapter 246-221 WAC.

[Statutory Authority: RCW 70.98.050 and 70.98.080. WSR 16-23-030, § 246-226-030, filed 11/8/16, effective 1/1/17.]