

120.420: Appendix A -- Radiation Shielding and Safety Requirements

<https://www.mass.gov/doc/105-cmr-120-the-control-of-radiation-0/download> (pg 332)

In order for the Radiation Control Program to provide an evaluation, and official approval on shielding requirements for a radiation installation, the following must be submitted. The plans shall show as a minimum the following:

<i>The plans shall show as a minimum the following:</i>	<i>Is this included in application?</i>	<i>Notes:</i>
<i>How did you determine this plan is sufficient & meets all the NCRP guidelines? (was there a consultant hired, etc.)</i>		
(A) The normal location of the x-ray system's radiation port, the port's travel and transverse limits, general direction(s) of the useful beam; locations of any windows and doors; the location of the operator's booth and the location of the x-ray control panel.		
(B) The structural composition and thickness or lead equivalent of all walls, doors, partitions, floor, and ceiling of the room(s) concerned		
(C) The dimensions of the room(s) concerned		
(D) The type of occupancy of all adjacent areas inclusive of space above and below the room(s) concerned. If there is any exterior wall, show distance to the closest area(s) where it is likely that individuals will be present.		
(E) The make and model of the x-ray equipment.		
(F) The typical type of examination(s) and treatment(s) which will be performed with the equipment.		
(G) Information on the anticipated workload of the x-ray system(s).		
(H) An interlock and/or warning light shall be installed at all egresses. For diagnostic x-ray installations, the warning light shall be wired to the rotor of the x-ray system.		
(I) All basic assumptions used to determine the shielding requirements in developing these plans shall be submitted with these plans.		