

Michigan Department of Licensing and Regulatory Affairs Radiation Safety Section Application for a Radiation Shielding Plan Review



Please complete and submit this form **with your radiation shielding plans and specifications** according to the guidelines listed below. Radiation shielding plans should be approved before construction and before operation of the x-ray equipment. Radiation Safety Section approval of the radiation shielding design does not imply local building code approval. For assistance in proposing shielding, some general shielding guidance is available on our web site at www.michigan.gov/rss under Radiation Shielding Information.

For use by Radiation Safety Section Plan review number: Facility registration number:						
A. Location of Proposed X-Ray Room(s)				Mail Results to this Address Send Results to this E-mail Address		
Facility Name				E-mail		
Address			Unit/Suite	Doctor's Name or Other Contact name		
City		State	Zip Code	County		
Expected Date of Project Completion Facility Registration		tion No. (if Alr	eady Registered)	Phone Number		
Certificate of Need Information X-ray installations that require a certificate of need (CON) include: megavoltage radiation therapy, C.T. scanners, cardiac catheterization, electrophysiology labs, and lithotripsy Does this project require a Certificate of Need? Yes No If Yes, CON#						
B. Submitter of Plan if Different than Indicated in Part A.				Mail Results to this Address Send Results to this E-mail Address		
Company Name				E-mail		
Address		Unit/Suite		Contact Name		
City	State	Zip Code		Phone Number		
C. Facility Representative if Different than Indicated in Part A.				Mail Results to this Address Send Results to this E-mail Address		
Facility Name				E-mail		
Address		Unit / Suite		Contact Name		
City	State	Zip Code		Phone Number		
Submit this application along with radiation shielding plans and specifications to rssinfo@michigan.gov, fax to (517) 763-0131 or mail to: MIOSHA/Radiation Safety Section Michigan Department of Licensing and Regulatory Affairs 525 W. Allegan Street P.O. Box 30643 Lansing, Michigan 48909-8143				For use by Radiation Safety Section Date received:		

MIOSHA-RSS-852 (Rev. 07/17) Authority: Part 135 of Public Act 368 of 1978, as amended Completion: Mandatory The Michigan Department of Licensing and Regulatory Affairs will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability or political beliefs. You may make your needs known to the agency if you need assistance with reading, writing, hearing, etc., under the *Americans with Disabilities Act.*

D. Purpose of Application						
New X-Ray Room	Renovating an Existing	New Equipment in Existing	New Owner of an Existing			
(New Construction) X-Ray Room X-Ray Room X-Ray Facility						
Hospital	Radiology Office	M.D./D.O.	Chiropractic			
Podiatric	Veterinary	Dental	Industrial			
Educational	Other					
F. Type of Machine and Anticipated Workload						
Radiographic	Extremity Only	Fluoroscopic	CT Scanner			
Mammographic	Linear Accelerator	Heart Catheterization	Special Procedures			
Dental Cephalometic	Dental CT (Cone Beam)	Industrial	Educational			
	Other					
Manuf./Model:		Anticipated radiographic workload:				
Location:	tion: mA-minutes per week:		week:			
Maximum kilovoltage (kVp)		or patients per week:				
Maximum milliamperage (mA):		Copy this page for additional machines or describe in a separate document.				
G. Attach Drawing of Room			•			
Provide plans or blue prints of rooms and adjacent areas (to scale). Scale should be ¼ inch per foot or larger. Please verify that ALL of these items are included in your submittal. Incomplete submittals						
will delay the plan review	N.					
All x-ray equipment and accessories Windows Patient viewing window Wall cassette holder X-ray table and extent of table movement The exact location of all proposed shielding Doors Building material thickness, if used for shielding (inc		Compass direction Exposure switch (exact location) X-ray tube and extent of movement The height of the shielding installed Information about the height of adjacent buildings Occupancy above and below Operator's barrier flude architectural documentation)				
poured concrete, etc. Indicate the thickness and density of concrete and masonry materials. For corrugated concrete floors and ceilings that are used as shielding, include the MINIMUM concrete thickness and the density (or unit weight) of the concrete in pounds per cubic foot.						
Include a description of the occupancy and control of adjoining areas including above and below the x-ray room on the plans.						
Include a description of any area beyond an outside wall, such as a lawn, parking lot and sidewalk. For exterior walls, show distance to property line and to closest area where individuals may be present.						
Include the distance to any multi-story buildings which are nearby.						
CT Scanners						
Include a copy of the iso-exposure curve normally provided by the manufacturer and calculations performed by a medical physicist.						
Linear Accelerators						
For accelerator facilities, include all assumptions and calculations upon which the proposed shielding is based. Such calculations should address instantaneous dose equivalent rates, as would be measured with a rate-type survey meter, and integrated weekly doses to adjacent areas for worst-case operating conditions. Specify neutron shielding methods for duct work and for other room penetrations, such as the use of borated polyethylene doors. Specify therapeutic workload in terms of rads or cGy per week at 1 meter.						
Please notify the Radiation Safety Section promptly if changes are made which require re-evaluation of the plans. If there are any questions, please contact us at (517) 284-7820 or rssinfo@michigan.gov						