







TABLE 1. SUGGESTED RADIUS OF INNER CORDONED AREA (SAFETY PERIMETER) FOR A RADIOLOGICAL EMERGENCY

Situation	Initial inner cordoned area (safety perimeter)			
Initial determination - outside				
Unshielded or damaged potentially dangerous source <sup>18</sup>	30 m around <sup>19</sup>			
Major spill from a potentially dangerous source	100 m around <sup>19</sup>			
Fire, explosion or fumes involving a potentially dangerous source	300 m radius <sup>19</sup>			
Suspected bomb (potential RDD), exploded or unexploded	400 m radius or more to protect against an explosion <sup>20</sup>			
Initial determination - inside a building				
Damage, loss of shielding or spill involving a potentially dangerous source	Affected and adjacent areas (including floors above and below)			
Fire or other event involving a potentially dangerous source that can spread materials throughout the building (e.g. through the ventilation system)	Entire building and appropriate outside distance as indicated above			
Expansion based on radiological monitoring <sup>21</sup>				
Ambient dose rate of 100 μSv/h <sup>22</sup>	Wherever these levels are measured			

The actual boundaries of the safety and security perimeters should be defined in the way that they are easily recognizable (e.g. roads) and secured. However, the safety perimeter should be established at least as far from the source as indicated in Table 1, until the radiological assessor has assessed the situation.

Incident commander actions in response to general radiological emergency (1)			Incident commander actions in response to general radiological emergency (2)
Stand off, observe and assess.  Determine inner cordoned area.  Reposition response personnel, vehicles and equipment.  Follow personnel protection guidelines.  Take life saving actions.  Establish an ICP and staging area.  Consider terrorism/bomb/second event.  Check and identify packages, people, papers and vehicles.  Mark inner cordoned area.  Evacuate public from inner cordoned area.  Request radiological assessor – get phone advice on radiation issues.		0 000 0 000 00	Request initial assessment from first responder monitor. Establish response areas/facilities. Account for all response personnel. Manage field triage, registration, monitoring and decontamination. Establish a security perimeter at scene and other facilities. Limit spread of contamination. Notify transport/medical facilities. Notify national EOC. Consider need for full response (specialised teams). Brief requested teams upon arrival. Keep the public informed through a single official source. Treat scene as a crime scene. Do not attempt recovery or decontamination of the scene.

Actions of all first responders in a radiological emergency (1)		Personnel protection guidelines (2)	
			Follow your standard safety
	Protect yourself.		procedures.
	Operate under the IC.		Be visually identifiable.
	Follow personnel protection		Minimize time near a potentially
	guidelines (on back of card).		dangerous source.
	Ensure that public follows public		Do not touch/hold suspected
	protection guidelines.		radioactive items.
	Do not delay life saving actions		If applicable use available
	due to presence of radiation.		respiratory protection.
	Direct media inquires to the		Keep hands away from mouth,
	public information officer.		do not smoke, eat or drink and
	Treat scene as a crime scene.		wash hands regularly.
	Follow your specific action		Ensure your name/activities
	guide.		performed are recorded.
			Get monitored and registered.
			Shower and change clothing as
			soon as possible.

Description of the patient of the patient of the patient of the patient of appropriate precautions are followed.  Description of the patient	Local hospital actions in radiological emergency (1)	Local hospital actions in radiological emergency (2)
	☐ Have law enforcement provide a cordoned area around the	him/her take a shower and change clothing as soon as possible (if will not adversely affect patient's medical status).  If the patient is contaminated — perform full decontamination.  Survey and transfer the uncontaminated patient to the clean area.  Control the spread of contamination: Before exiting/removing from contaminated area (1) Survey staff, remove contaminated clothing and shower. (2) Survey equipment.  Conduct clean up under direction of radiological assessor.  Don't release areas and ambulance for normal use until approved by radiological assessor.