

Most Geiger counters will be useless (saturated) in the critical stages of a nuclear emergency!

This graphic uses equivalent volume of salt as an analogy to demonstrate the enormous range of measurement required to truly evaluate radiation levels for managing emergency response. The NukAlert-ER does the job.

If 1 salt grain represents 1 μ R (micro Roentgen*) *Roentgen is a unit of radiation exposure

10 μ R/hr = 10 salt grains per hour (0.0001 tsp)	World average background radiation
400 μ R/hr = 400 salt grains per hour (0.004 tsp)	Transcontinental flight at cruising altitude
1mR/hr = 1000 salt grains per hour (0.01 tsp)	Highest natural radiation where people live
10mR/hr = 10,000 salt grains per hour (0.1 tsp)	Functional limit of some Geiger counters
Low-Radiation Zone / Hot Zone	
Responders may stay for full first 12 hours. Uninjured people may simply be told to go home and shower.	
100mR/hr = 100,000 salt grains per hour (1 tsp)	Functional limit of most Geiger counters
Medium-Radiation Zone / Hot Zone	
Responders may stay for 5 to 12 hours for critical property and lifesaving activities. People in this area should be checked for contamination before release.	
1R/hr = 1 million salt grains per hour (10 tsp)	Most Geiger counters are SATURATED
High-Radiation Zone / Hot Zone	
Responders may stay for 30 minutes to 5 hours for fire fighting and rescue. People in this area should be checked for contamination before release.	
10R/hr = 10 million salt grains per hour (1 pound)	Most Geiger counters are SATURATED
Extreme Caution Zone / Dangerous Fallout Zone	
Responders may stay for minutes to a few hours for lifesaving activities. People within this area <u>must</u> be checked for contamination before being released.	
50R/hr = 50 million salt grains per hour (5 pounds)	Most Geiger counters are SATURATED
Turn Back / Deadly Fallout Zone	
Responders should leave the area. In extreme life-saving situations, Responders can continue if aware of the radiation risks and no alternative rescue method exists.	
1000R/hr = 1 billion salt grains ~ 100pounds	Likely Fatal Dose Accumulated in 30 Minutes
Use the NukAlert-ER to <u>IMMEDIATELY</u> find a safer location	
<u>Functional Upper Range of the NukAlert-ER</u>	

A little salt

is OK

Too much salt

is dangerous

100 LB!!!

<http://nukalert.com/>

References: http://www.crcpd.org/rdd_handbook/rdd-handbook-forweb.pdf#page=63 <http://www.fas.org/irp/agency/dhs/fema/ncr.pdf>