

Application

ROI Snapshot

ROI Calculation

Q
A

**How fast is ROI on
Thermo Scientific RadHalo
RDP Systems?**

Less than 3 years.

By purchasing two Thermo Scientific™ RadHalo™ RDP probes, your Emergency Planning (EP) Drills and Real-Life Events will experience significant cost savings through the increased efficiency associated with the Field Data Monitoring and Notification process.

Cost savings to a nuclear power plant that runs a program of two EP simulation drills a year are over \$25,000 a year. Savings are associated with the elimination of:

- Visiting sample locations
- Gathering samples
- Analyzing samples
- Generating reports



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In less than 3 years, you will have recovered your investment through increased efficiency of personnel during EP Simulation and Real-life events.

Not only is the ROI quick, the RadHalo RDP improves health and safety and assures the well-being of the public during an actual plant emergency.

1. Eliminates the need for humans having to enter plume (centerline) to obtain environmental readings/samples
2. Frees up Counting Room counters (GeLi's) for other important counting during an event
3. Frees up valuable RP Technicians to do other things during the critical time period of event
4. Provides real-time protection and Off Site Dose Calculation Modeling (ODCM) updates improving quality of decision making

Assumptions:

- The site has 2 EP Drills/Training Simulations per year
- Each sample point requires a dose rate reading (window open/closed) and an air sample
- 20 Locations/sample points/event per van
- 10 sample points actually provide soil/vegetation sample to be counted in Counting Room
- 1.5 hrs / sample total time (transportation time, lab preparation and counting time, etc.)
- 15 min per sample to enter data into ODCM and process report

ROI Calculation

1. Field Savings: (2 Drills/year) (2 Teams/drill) (2 Techs/team) (25 locations visited /team) (10 minutes/location) (0.1 hr/min) (\$50/hr) = \$10,000
 2. Technical Support Center Savings: (2 drills/year) (1 EP Environs Director / Drill) (25 locations /drill) (5 minutes/sample) (0.165 hr/min) (\$50/hr) = \$2,063
 3. Field tech delivering samples to be counted: (2 drills/year) (2 Teams/drill) (10 samples/team) (30 min/sample) (0.165 hr/min) (\$50/hr) = \$9,900
 4. Chemistry Counting Room Time Saved (Hot Lab): (2 drills/year) (1 Chemist/drill) (20 samples/chemist) (10 min/sample) (0.165 hr/min) (\$50/hr) = \$3,300
- Total \$ saved per year (assuming only use for drills (no real events) or additional uses/release point calculations or general area air flow calc during outage) \$25,263

Learn more about the Thermo Scientific RadHalo Rapid Deploy Probe, visit us online at www.thermoscientific.com/radhalo

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