MIRION 21 Connect

Annual Users' Conference





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Mirion Connect | Annual Users' Conference 2021 Aurora, Colorado





Agenda

- About the AccuRad PRD
- Voice of the customer
- What's New? Newer? Newest?





About the AccuRad PRD

What, when, and how.





About...

- Designed by and for emergency responders.
- Discreet, durable, easy to use.
- Benefit of use for applications in:
 - Nuclear Power Plants
 - DOE sites
 - Universities
 - Industrial facilities
 - Hospitals







About... (cont.)

Benefits of use (cont.)

- Users include:
 - HP/ RP / Rad-Con personnel in NPP, DOE Site, DoD., Shipyards, State Labs,
 State Pens, Waste processors, Remediation sites...
 - State Inspectors and EMA personnel
 - Lab Personnel
 - Radiation Safety Officers
 - Emergency Room Staff
 - Navy and Army EOD personnel





Voice of the Customer

The power is in the collaboration







Voice of the Customer

- Mirion: What is currently available to you?
- Mirion: What do you need?
- Mirion provides props and asks: "Show-and-tell us what you need"
- Mirion: Why does this form-factor wor

















• Voice: something like...















 Voice: it's compact, big display, big buttons, unbreakable clip, lightweight, easy to use.

Voice: "You listened!" (Validation)









Keeping it fresh





AccuRad Testing & Certification

- ANSI N42.32-2016 (PRD) 3rd party reports Includes ANSI N42.20 (EPD) dose rate response
- IEC62401:2017
- Additional AccuRad Requirements
 IP67, dose rate accuracy +/-20%...





AccuRad Testing & Certification: Formal Tests



- Rail track simulates source of interest passing or passed by
- In accordance with the 2016 version
- Includes a "phantom" devices on both sides

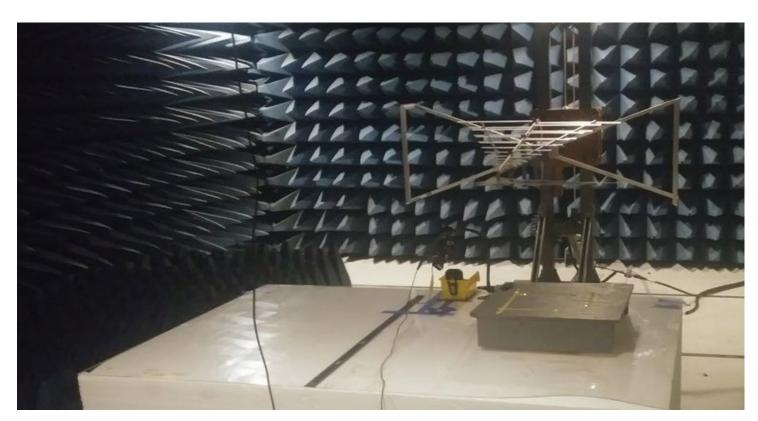




- Environmental chamber to simulate temperature and humidity extremes
- Device performance for detection as well as display performance in extreme conditions
- Included both dynamic changing conditions and static full range operation

AccuRad Testing & Certification: Formal Tests (cont.)

- Radiated immunity (50V/m) from outside transmitters
- Tested to ensure does not cause any interference
- Survives electrostatic discharge at 6000V contact and 8000V in-air discharge



- Magnetic field 100A/m (1.3 gauss) at 50Hz and 60Hz
- Ensures performance near extreme levels of power transmission lines

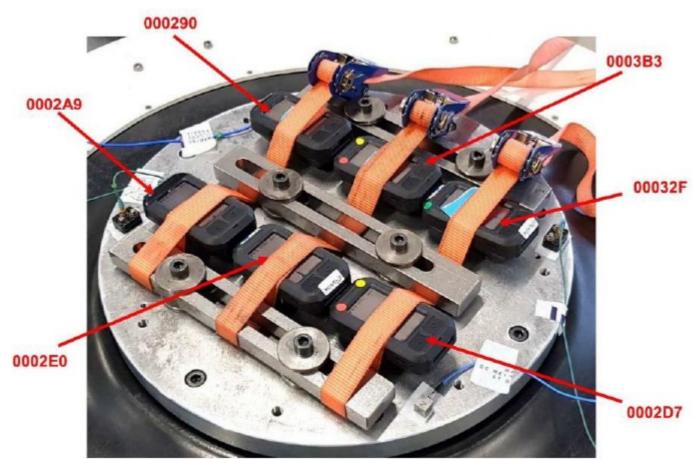






AccuRad Testing & Certification: Formal Tests (cont.)

- Formal version of our "cat drop test" vibration testing
- Simulates body motions in all likely conditions
- Also includes impacts typical of jumping/landing while still affixed to a wearer



- Dust/dirt ingress testing while still operating
- Also tested for washdown, spray, showers
- Includes underwater testing at a depth of 1 meter for 30 minutes without intrusion







Dark Mode Display

- Reverse contrast display option
- Helps minimizes effects of glare
- Accessible from Settings Menu









What's New? (cont.)

Accessories

Ram Mount





USB-C Cable



Earpiece USB-C



Storage Case
1 & 25 AccuRad's









Source Check Fixture

For bump test/response check and accuracy test verification

Assures correct detector-to-source geometry.

Supports low cost of ownership

Example Response Check Log:

Display values in microrem			Tolerance +/15%	Within Tolerance?	
DATE	EXPECTED	MEASURED	ACCURACY	YES	NO
3/11/2021	25	26	470	✓	
4/12/2021	25	25	0%	✓	
5/10/2021	25	24	-470	✓	
6/10/2021	25	23	-870	✓	
7/10/2021	25	26	4%	✓	
8/12/2021	25	26	4%	✓	
9/9/2021	25	25	0%	✓	
10/8/2021	25	27	870	✓	



What's Newer (cont.)

D&I Response Kit

- SpirACE G/N
- AccuRad PRD (6)
- Rugged Case
- Customized configurations





What's Newer (cont.)

X-SITE Live Hazardous Monitor

- Drager X-AM 8000 Gas Vapor
- AccuRad PRD
- Lifeline Smart Gateway with FirstNet
- Deployable, real-time gas (C) and radiation (RN) detection for remote situational awareness anywhere in the world

Collaboration with: Dräger









What's Newest?

The AccuRad SIM









What's Newest (cont.)?

The AccuRad SIM

Demonstration





Open Forum





Thank you!