





















ATTACHMENT 2- sheet 2	Manufacturer	Part number	Brief Description	Standards for Personal Protective Gear for First Responders								Standards for Radiation and Nuclear Detection Equipment				Other Standard/ Certification	Other Standard/ Certification	Other Standard/ Certification
				Meets NIOSH Chemical, Biological, Radiological and Nuclear (CBRN) Standard for Open-Circuit Self-Contained Breathing Apparatus (December 2001).	Meets NIOSH Standard for Chemical, Biological, Radiological, and Nuclear (CBRN) Full Face piece Air Purifying Respirator (APR)	Meets NIOSH Standard for Chemical, Biological, Radiological, and Nuclear (CBRN) Air-Purifying Escape Respirator and CBRN Self-Contained Escape Respirator.	Meets NFPA 1951, Standard on Protective Ensemble for USAR Operations.	Meets NFPA 1981, Standard on Open-Circuit Self-Contained Breathing Apparatus for Fire and Emergency Services.	Meets NFPA 1991, Standard on Vapor-Protective Ensembles for Hazardous Materials Emergencies.	Meets NFPA 1994, Standard on Protective Ensembles for Chemical/Biological Terrorism Incidents.	Meets NFPA 1999, Standard on Protective Clothing for Emergency Medical Operations.	Meets ANSI N42.32: Performance Criteria for Alarming Personal Radiation Detectors.	Meets ANSI N42.33: Radiation Detection Instrumentation	Meets ANSI N42.34: Performance Criteria for Hand-Held Instruments for the Detection and Identification of Radionuclides.	Meets ANSI N42.35: Evaluation and Performance of Radiation Detection Portal Monitors			
		2																
		3																

**NOTE 1: RADIATION DETECTION AND APPLICABLE STANDARDS**  
 Not all radiation detection equipment has been or will be submitted for testing by the individual manufacturers. Of the equipment that has been tested, no manufacture has passed those tests 100%. See note under "Other Radiation Detection Equipment" below:

Standards for radiation detection equipment include the following:  
 Personal Dosimetry: ANSI N42.20; N13.27; 10 CFR and 29CFR. Additional testing criteria applies to NVLAP testing and approval  
 Dosimeters offered by LAURUS Systems Inc. both meet and at times exceed applicable standards for Electronic Dosimetry. However, no SINGLE mfg. meets all of those standards and most likely never will. Standards are meant to be used as a guideline for evaluation of units specific to a users needs. Not all standards apply to all users. Therefore, it is not possible to say that a particular unit meets "A Standard" but it is possible to say which part of those standards a particular unit may comply with or take exception to.

**Other Radiation Detection Equipment:**  
 ANSI 42.32 through 42.35  
 According to Ms. Leticia Labida with NIST, These standards are still not final and in fact are in a continuous state of revision. Also, there is no single instrument or monitor that has passed 100% of the standard(s) and most likely never will. What is important is to determine which of those standards meets a users particular needs and is most important to that user. For example, drop tests or EMI testing. Resistance to moisture, etc.

ITRAP Requirements are set by IAEA and include performance tests for radiation detection equipment. The PM-1703x Detectors meet many of those requirements and additional test reports are available by request.