

**ATTACHMENT 2- sheet 2**

**Standards for Personal Protective Gear for First Responders**

**Standards for Radiation and Nuclear Detection Equipment**

Manufacturer	Part number	Brief Description	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	Other Standard/ Certification	Other Standard/ Certification	Other Standard/ Certification	Other Standard/ Certification
											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	Other Standard/ Certification	Other Standard/ Certification	Other Standard/ Certification	Other Standard/ Certification
<p><b>1. Personal Protective Equipment-</b> Equipment worn to protect the individual from hazardous materials and contamination. Levels of protection vary and are divided into categories based on the degree of protection afforded. The following constitutes equipment intended for use in a chemical/biological threat environment:</p>																		
<p><b>Level A:</b> Fully encapsulated, liquid and vapor protective ensemble selected when the highest level of skin, respiratory, and eye protection is required. The following constitutes Level A equipment for consideration:</p>																		
<p>1.1 Fully Encapsulated Liquid and Vapor Protection Ensemble, reusable or disposable (tested and certified against CB threats)</p>																		
<p><b>add additional rows as needed</b></p>																		
<p>1.2 Fully Encapsulated Training Suits</p>																		
<p>1.3 Closed-Circuit Rebreather (minimum 2-hour supply, preferred), or open-circuit Self-Contained Breathing Apparatus (SCBA) or, when appropriate, Air-Line System with 15-minute minimum escape SCBA</p>																		
<p>1.4 Spare Cylinders/Bottles for rebreathers or SCBA and service/repair kits</p>																		
<p>1.5 Chemical Resistant Gloves, including thermal, as appropriate to hazard</p>																		
<p>1.6 Personal Cooling System; Vest or Full Suit with support equipment needed for maintaining body core temperature within acceptable limits</p>																		
<p>1.7 Hardhat/helmet</p>																		
<p>1.8 Chemical/Biological Protective Undergarment</p>																		
<p>1.9 Inner Gloves</p>																		
<p>1.10 Approved Chemical Resistant Tape</p>																		
<p>1.11 Chemical Resistant Boots, Steel or Fiberglass Toe and Shank</p>																		
<p>1.12 Chemical Resistant Outer Booties</p>																		
<p><b>Level B:</b> Liquid splash resistant ensemble used with highest level of respiratory protection. The following constitute Level B equipment and should be considered for use:</p>																		
<p>1B.1 Liquid Splash Resistant Chemical Clothing, encapsulated or non-encapsulated</p>																		
<p>1B.2 Liquid Splash Resistant Hood</p>																		
<p>1B.3 Closed-Circuit Rebreather (minimum 2-hour supply, preferred), open-circuit SCBA, or when appropriate, Air-Line System with 15-minute minimum escape SCBA</p>																		
<p>1B.4 Spare Cylinders/Bottles for rebreathers or SCBA and service/repair kits</p>																		

Certification















