

VEHICLE-MOUNTED RADIOLOGICAL NUCLEAR DETECTION SYSTEM

DESCRIPTION	A Vehicle-Mounted Radiological Nuclear Detection System is vehicular platform-transported (such as by truck, boat, or aircraft) instrument that detects radiological and nuclear material.
RESOURCE CATEGORY	Prevention
RESOURCE KIND	Equipment
OVERALL FUNCTION	This equipment: <ol style="list-style-type: none"> 1. Detects the presence of radiological and nuclear material 2. Identifies radioisotopes in a wide area around the vehicular platform 3. Users may permanently mount the system in a vehicular platform, such as a truck, boat, or aircraft, and reposition it between platforms 4. Due to the larger detector element and power source, the device's detection range may be greater than a Personal Radiation Detector (PRD), Radio-Isotope Identification Device (RIID), or Human Portable Radiation Detector
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. The Agency Having Jurisdiction (AHJ) and requestor should address the following prior to deployment: <ol style="list-style-type: none"> a. Logistics support such as transportation and personnel b. Type of incident and event c. Spare batteries and battery recharging capabilities d. Additional features, such as dose rate capable, low profile mode, ruggedized, and network capable e. Global Positioning System 2. The requestor can request this resource with or without the personnel component of a National Incident Management System (NIMS) Type 2 Preventive Radiological Nuclear Detection (PRND) Screener 3. If the requestor orders this resource without personnel, the AHJ should have a NIMS Type 2 PRND Screener or provide face-to-face training specific to the mission, without lag time between training and mission deployment

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4	NOTES
EQUIPMENT PER RESOURCE ISOTOPE IDENTIFICATION	Same as Type 3	Same as Type 4	Isotopes	No capability	Not Specified
EQUIPMENT PER RESOURCE RADIATION DETECTION	Same as Type 2	Same as Type 3, PLUS: Neutron	Same as Type 4	Gamma	Not Specified



NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

REFERENCES

American National Standards Institute/Institute of Electrical and Electronics Engineers, Inc. (ANSI/IEEE) N42.43-2006 American National Standard Performance Criteria for Mobile and Transportable Radiation Monitors Used for Homeland Security, May 2007