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: 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	1. The Agency Having Jurisdiction (AHJ) and requestor should address the following prior to deployment: 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 DETECTION	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

1. FEMA, NIMS 509: PRND Screener
2. FEMA, NIMS, October 2017
3. Institute of Electrical and Electronics Engineers, Inc. (IEEE) N42.43-2016 American National Standard Performance Criteria for Mobile and Transportable Radiation Monitors Used for Homeland Security, May 2016