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Displaying 3 result(s)

1. 11.1-001: Development of commercial hand-held and backpack neutron detectors

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Develop and commercialize neutron detector with matured technology to replace existing 3He-based thermal or fast neutron detectors for portable (hand-held and backpack) radioisotope identification devices, and active interrogation systems. DESCRIPTION: The Department of Homeland Security Domestic Nuclear Detection Office (DNDO) is developing new materials and technology for thermal and ...

SBIR Domestic Nuclear Detection Office

2. 11.1-002: Flexible Form Factor Radiation Monitor

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Develop a radiation sensor to support search operations that has a variable or flexible form factor than current systems. The device(s) should be more sensitive, lower-cost, more be specific than current COTS approaches. DESCRIPTION: Certain scenarios involving the search or surveillance for nuclear or radiological materials of concern are best accomplished with a radiation monitoring d ...

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3. 1I.I-003: Growth & Characterization of New, Promising Advanced Scintillator Materials

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Growth and characterization of single crystals of selected new scintillator materials which have been identified, through prior R&D program efforts, as being promising advanced materials with potential of high energy resolution, high efficiency, ease of growth of large size crystals, and low cost. Objective of this effort is to grow large enough crystals to enable characterization of en ...

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