

New proposals for vehicle portal monitor applications

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New concepts and ideas are suggested for gamma-ray detection by vehicle portal monitors at international borders. Troubles in operation of the monitoring systems are analyzed and the resolutions are debated in practical application. The information of radionuclides needs to be as specific as possible in the device promptly. The effectiveness of inspection is also considered in the study. Logic for minimizing false alarm and maximize detection is figured out. New design of inspection system contributes more than a radiation detector, even respecting the operational environments synthetically.

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