

ON THE ISSUE OF TESTING AND APPLICATION OF LIQUID EXPLOSIVES IN INDUSTRY

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Abstract: Mixed liquid explosives made from nonexplosive components near the areas of application, the discovery of which was made in the XIX century, is quite relevant today and in most cases, subject to security requirements, can be used in industrial explosion works. These explosive substances, although toxic, have advantages over explosives manufactured at chemical plants, as evidenced by the practice. In the XXI century, in Russia, liquid explosives on the basis of dinitrogen tetroxide were used on various objects of construction and reconstruction: for crushing of concrete and metal structures inside the existing hydroelectric power plants on the Volga and Vuoksi rivers, for crushing rocks during the construction of tracks for a gas pipeline “Dzuarikau–Tskhinval” in South Ossetia, for the preparation of venues in the rocks during construction of the Russian Ministry of Defense in the city of Severomorsk, Murmansk region, for the collapse of reinforced concrete pipe and crushing reinforced concrete foundations to prepare the site for construction of the Grozny thermal power plant in the Chechen Republic, for the reconstruction of “Tsurib–Archiv” road in the Republic of Dagestan.

Keywords: liquid explosives; dinitrogen tetroxide; acceptance testing; industrial application; safety assessment

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