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NATURAL DISASTER REDUCTION: INTERRELATIONSHIPS BETWEEN  
TECHNOLOGICAL AND NATURAL HAZARDS

Technical session

Interrelationships between natural and man-made  
risks: the Russian experience

Summary of presentation by Dr. Evgenii S. Dmitriev, State Institute  
for Applied Ecology, Russian Ministry of the Environment and Natural  
Resources Protection; and Mr. Viktor A. Vladimirov, Russian Ministry  
on Civil Defence, Emergencies and Liquidation of Natural Disaster  
Consequences

1. The presentation gives a statistical analysis of the emergencies of natural and man-made character with environmental effects that took place on the territory of the Russian Federation in 1992-1993. It shows that for Russia the possibility exists of increasing negative effects of natural disasters in their interrelationship with man-made emergencies.
2. This problem is especially aggravated by water resources pollution and accidents on pipelines. The report produces a matrix of cause and effect relationships for various natural events and man-made catastrophes with environmental effects. The matrix is built with due regard given to existing

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potentially hazardous objects and is peculiar to Russian natural hazard phenomena. On the basis of this matrix, a concrete situation is analysed, conditioned by the level lift of the Caspian Sea, flood occurrence and destruction of hazardous industrial waste disposal sites. For the discussed situation the report gives information concerning measures on emergency prevention, both implemented and planned. Planning of future activities with due regard given to interrelationships between natural and man-made risks is considered as one such preventive measure. General requirements for future activity planning are formulated, and normative and legislative acts, on the base of which such requirements should be met, are described.

3. The information cited in the report will be certified by official statistic data, data and information from the State of the Environment Reports of the Russian Federation.

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