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NUCLEAR INFRASTRUCTURE IN THE FIELD OF NUCLEAR FUEL CYCLE FOR THE NEWCOMER-COUNTRY: MAIN PRINCIPLES AND STEP-BY-STEP ALGORITHM OF DEVELOPMENT

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Nuclear infrastructure development is vital for the effective implementation of the nuclear energy programme (including the construction and maintenance of nuclear power plants) because it helps to minimize the potential risks that may arise during the planning, construction and operation of nuclear facilities. The report addresses key issues in the development of national policies, strategies, legislation, regulation, technology, management and personnel. It presents the main factors influencing the choice of strategy in the field of nuclear fuel cycle, predicts the key directions of its long-term development and provides recommendations for the newcomer-country. The focus of the report is devoted to the back-end of the nuclear fuel cycle, the scenarios of its development and criteria for the final selection of either option. Spent nuclear fuel treatment and the possibility of returning fissile materials back to the nuclear fuel cycle determine today the whole picture of the nuclear fuel cycle.

Do you wish to enter the YGE SFM19 Challenge?

Country or International Organization

Russian Federation

Primary author: Dr ZHURBENKO, Evgeny (TENEX)

Co-author: Dr CHERNYAHOVSKAYA, Yulia (Rusatom Service)

Presenter: Dr ZHURBENKO, Evgeny (TENEX)

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