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Approaches to evaluation of spent nuclear fuel reprocessing products activity and volume equivalence which is returned to a supplier state in the Russian Federation

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According to a series of interstate agreements of the Russian Federation, spent fuel assemblies from the Russian-origin reactors are subject to return to the Russian Federation for interim technological storage and subsequent reprocessing. Meanwhile according to the legislation of the Russian Federation, products of SNF reprocessing are subject to return to the Supplier's state. The principle of activity equivalent for the imported SNF and the reprocessing products returned to the Supplier's state is used in the Russian Federation to determine the volume of reprocessing products to be returned, taking into account the natural decay of radionuclides for the period of technological storage. However, there is no uniform approach to determine the activity equivalent criteria. The paper describes the main approaches implemented in the Russian Federation to determine this criteria and shows prospective ways to its definition.

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Country or International Organization

Russian Federation

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