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Pre-operational radiologic monitoring program of Türkiye's first open pit rare earth element mining and processing area.

Facilities that will carry out rare earth element (Thorium and Uranium) extraction, processing and storage activities are considered in the scope of nuclear facility. For this reason, the founder carries out an environmental radiological monitoring program for a period of 1 year to determine the background radiation in the environmental environment in and around the mine site. Then, it submits the report of the pre-operation environmental radiological monitoring program to the national Nuclear Regulatory Authority(NRA) for approval. As it is known that, this practice is carrying out in other countries in the world in a similar way with some differences. In this study, information about encountered difficulties and practical experiences regarding with preparation, application and evaluation phases of radiological monitoring programme is given in a flow chart. At the end of one year, on-side dose calculation was made for the mine site and surrounding settlements.

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