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## **RADIATION PROTECTION PROGRAMME FOR A NUCLEAR FUEL FABRICATION PLANT WITH LOW ENRICHED URANIUM**

An adequate radiation protection programme must be established for a nuclear fuel fabrication plant with low enriched uranium in order to ensure the protection of people and the environment from the harmful effects of ionizing radiation. Such a programme should include the establishment of radiation protection groups, dose limitation systems, an adequate classification of working areas, the use and maintenance of radiation protection equipment and facilities, radiation and contamination monitoring, and radiation protection procedures. The purpose of this paper is to provide description of nuclear fuel fabrication plant and practical information and guidance to nuclear fuel facility specialists on the establishment of an effective operational radiation protection programme for a nuclear fuel fabrication plant. Training of workers in protection and safety should be a well established part of the overall programme on radiation protection. Doses to workers at nuclear fuel fabrication plant are comparatively low, especially in relation to the dose limit for occupational radiation workers. For workers in the nuclear fuel fabrication plant, the individual dose limits are based on external radiation and intakes. In addition to these limits the ALARA principle (as low as reasonably achievable) must be taken into account in design as well as operation.

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