



## Licensing authority's control of radiation sources and nuclear materials in Brazil

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### ABSTRACT

The Brazilian Nuclear Energy Commission is the national licensing authority and among its responsibilities is the control of nuclear materials and radiation sources. This control is carried out in three different ways:

#### **1) Control of the import and export of nuclear materials and radiation sources.**

To be able to import or export any nuclear material or radiation source, the user has to have an explicit permission of the Licensing Authority. This is controlled by electronic means in which the user has to fill a special form found on the Licensing Authority's home page, where he has to fill in his name, license number, license number of his Radiation Protection Officer and data of the material to be imported or exported. These data are checked with a data base that contains all the information of the licensed users and qualified personnel before authorization is emitted.

The airport authorities have already installed X-ray machines to check all baggages entering or leaving the country.

#### **2) Transport and transfer permit for radiation sources.**

In order to transport and/or transfer radiations sources and nuclear materials within the country, the user(s) have to submit an application to the licensing authority. The user(s) fill out an application form where he fills in his company's name, licensing I.D., Radiation Protection Officer's name and I.D and identification of the sources involved. These information are checked with the licensing operations data before the operations is permitted.

#### **3) Inspections and radiation monitoring systems.**

Routine and Regulatory inspections are continuously carried out where the user's radiation sources and nuclear materials inventory are checked. Also ~~the~~ the physical security and protection of these materials are verified.

The installation of monitoring systems is an item that is being discussed with the airport authorities so as to increase the possibilities of detecting any ilegal transport of these materials.