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Brazilian Nuclear Fuel Cycle (front end): INB's Integrated Approach for U₃O₈ and UF₆

The safe and secure transportation of nuclear materials is a strategic and highly regulated activity for Indústrias Nucleares do Brasil (INB). This paper describes INB's integrated approach to the road transport of uranium concentrate (U_3O_8) from the mining site to the port in Bahia and the transport of uranium hexafluoride (UF₆) from the port to the nuclear site in Rio de Janeiro. These operations, crucial for Brazil's nuclear fuel cycle, involves distinct technical, regulatory, and security challenges, requiring also robust coordination among national authorities such as CNEN/ANSN, IBAMA, the Federal Police, and the Brazilian Navy. By integrating safety, security, and environmental considerations, INB strengthens regulatory compliance, operational reliability, and public confidence.

Country or International Organization

Instructions

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