**Blockchain and the Nuclear Supply Chain: The Tracking Technology of the Future**

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| **Abstract** The transportation and tracking of nuclear materials has become one of the leading areas of study in recent years. Nuclear material transportation includes many important parameters such as sustainability, security, transparency. There are many factors (temperature, time, etc.) that are critical in the transportation and tracking of these materials. The inclusion of blockchain technology in the supply processes increases the security of nuclear material transportation and tracking processes and provides demonstrable solutions to the challenges. In this study, a review and sample architecture are presented on the use of blockchain technology in nuclear material transportation. In addition, the potential benefits of blockchain and its usability in nuclear material transportation will be evaluated. The main purpose of this study is to reveal how effective and efficient blockchain technology can be in nuclear material transportation. The study has shown that the security and efficiency of nuclear material transportation can be increased and that a valuable contribution can be made to future transportation methods. |

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| Keywords: Blockchain, Nuclear Material, Tracking, Supply Chain |

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