

Radiation Safety Information Computational Center (RSICC): An Information Analysis Center for Nuclear Science

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Abstract: The Radiation Safety Information Computational Center (RSICC) was founded in 1962 at Oak Ridge National Laboratory (ORNL) and is a specialized information analysis center under the auspices of the Office of Science and Technical Information within the U.S. Department of Energy (DOE). RSICC has served the international nuclear community for over six decades through its efforts to collect, archive, and distribute information, data, and modeling and simulation (M&S) tools for a broad range of nuclear technology applications. RSICC is the sole organization responsible for the distribution of the MCNP® Monte Carlo code that is a reference tool for testing and evaluating nuclear data libraries. MCNP® is one of the primary tools utilized by the Validation of Nuclear Data Libraries (VaNDal) subgroup under the Working Party on Evaluation and Cooperation (WPEC) of the Nuclear Energy Agency (NEA) of the Organization for Economic Cooperation and Development (OECD). Since 2010, RSICC has distributed over 23,000 copies of the MCNP® code to our Worldwide customer base. Over the past decade, RSICC has distributed over 1,000 copies of MCNP® annually to our customers located in the U.S. and abroad. Approximately 50% of the MCNP® software packages distributed have been provided to U.S. universities and sponsored organizations whereas over 27% of the packages have been provided to foreign organizations and over 22% to domestic organizations that are not supported by RSICC's sponsors. While there is high demand for the code, the distribution of the code is limited to only approved countries because the code is regulated by the U.S. National Nuclear Security Administration. This paper provide will provide a general overview of RSICC's activities, services, and systems; provide information regarding Federal export control regulations for codes such as MCNP®; and provide recommendations for the control and use of RSICC software.

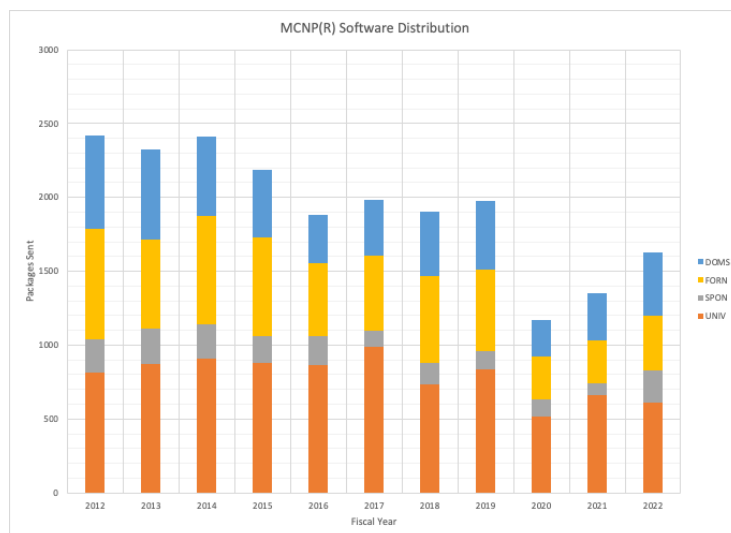


Figure 1. MCNP® Annual Distribution Statistics