



ENGINEERING DESIGN FILE

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Project/Task ARMF RADIOACTIVE SOURCE SHIPPING DRUM

Subtask Design Inputs, Analyses, Design Description

EDF Page 1 of 11

Title: ARMF RADIOACTIVE WASTE SHIPPING DRUM DESIGN

SUMMARY: The summary briefly defines the problem or activity to be addressed in the EDF, gives a summary of the activities performed in addressing the problem and states the conclusions, recommendations, or results arrived at from this task.

This EDF documents the design of a 55 gallon drum for transporting 4 radioactive sources from the Test Reactor Area's Advanced Reactivity Measurement Facility (ARMF) to the Radioactive Waste Management Complex (RWMC) for storage.

The shipping drum is similar in design to a DOT Spec 6M drum, with the exception that the inner container was replaced with a shielded container surrounded by steel piping, to provide sufficient shielding for the package to be accepted as "Contact-Handled Transuranic Waste" at the RWMC.

The Transport Plan is being reviewed and approved independently of this design activity. The Packaging and Transportation Department participated in the multidisciplinary review of this design.

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See Management Control Procedure (MCP) 6 for instructions on use of this form.