



Nuclear Energy, Power Plant, and Reactor Sourcebook: NRC Response Technical Manual (RTM-96) - Reactor Core Damage Assessment, Accident Consequences, Radioactive Releases and Dose Projections

U.S. Government, Nuclear Regulatory Commission (NRC)

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This is a print replica reproduction of an official document from the Nuclear Regulatory Commission (NRC) - Response Technical Manual (RTM-96). This is the manual providing step-by-step instructions for responding to serious nuclear accidents such as core meltdowns and radioactive releases. Scenarios covered include reactor core damage assessment, spent fuel pool damage and consequence assessment, uranium hexafluoride release, early phase radiation dose projections, and extraordinary nuclear occurrences.

Bonus documents are also included: Citizen's Guide to U.S. Nuclear Regulatory Commission Information, 2016 Congressional Budget Justification, Status Report on U.S. Nuclear Energy Program.

This manual contains simple methods for estimating the possible consequences of different kinds of radiological accidents. The resulting estimates will help officials determine or confirm where to recommend protective actions to the public. These methods should be used only by trained personnel who can interpret the calculations, tables, and figures in this document. There are two objectives for the use of this manual: To prevent early health effects (deaths and injuries) by taking action before or shortly after a major (core damage) release from a light water reactor or nuclear material accident and keeping the acute dose equivalent (due to both external exposure and inhalation) below the early health effects thresholds. To reduce the risk of delayed effects on health (primarily cancer and genetic effects) by implementing protective actions in accordance with EPA early phase Protective Action Guides (PAGs) and intermediate phase PAGs (both ingestion and relocation concerns). This manual contains methods (procedures) used to perform the assessments necessary to meet the public protection objectives. The methods are in the approximate order that assessments will be performed and are located at the front of the manual. Later sections contain the tables, figures, worksheets, and reference material that are necessary or useful in performing the procedures. Each assessment section contains at least one stand-alone procedure. The more complicated assessments involve the use of more than one method (a separate procedure) to complete the assessment. Each method is organized into purpose, discussion, and steps. The discussion may provide a summary of the steps, assumptions, cautions, and other relevant information. Method steps provide the instructions for the procedure. This manual is conservative; that is, the results should overestimate the dose or result in actions at levels below those recommended in the guidance. Do not add additional conservatism (e.g., do not divide a guideline by 10 just to be safe). Adding additional conservatism will cause confusion and will make it difficult to compare the risk of the action to the risk avoided.

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