

Preface

This Report was developed under the auspices of Program Area Committee 6 of the National Council on Radiation Protection and Measurements (NCRP), the Committee that provides oversight for radiation dosimetry and measurements. It is an update of NCRP Report No. 93, *Ionizing Radiation Exposure of the Population of the United States*, which was issued in September 1987. This Report evaluates the doses to the U.S. population from all sources of ionizing radiation for 2006, with particular attention to those sources that contribute the largest shares, and provides some information on doses that individuals may experience due to their specific circumstances. For example, patients undergoing specific medical procedures using ionizing radiation can in many cases obtain a nominal value of dose for a medical procedure (*e.g.*, an abdominal computed tomography examination) from data tabulated in this Report and a general idea of the total dose from multiple procedures by summing the values.

While the Report clearly describes the relative dose contributions to individuals and the population from the various radiation sources, it does not attempt to quantify the associated health risks nor specify the actions that should be taken in light of these latest data. The latter two subjects were outside the scope of the charge to the Committee.

NCRP has adopted the International System (SI) of Quantities and Units for its reports (NCRP Report No. 82, *SI Units in Radiation Protection and Measurements*) which includes gray, sievert and becquerel. However, some of the references cited in this Report originally used the previous system of quantities and units, namely rad, rem and curie, which have been converted to the SI system in this Report. For convenience, conversions between the SI system and the previous system are provided in Appendix A.

This Report was prepared by Scientific Committee 6-2 on Radiation Exposure of the U.S. Population, through the effort of five subcommittees, each of which addressed a specific category of radiation sources. Serving on the Committee (listed by category of radiation sources) were:

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The Council expresses its appreciation to the Committee members for the time and effort devoted to the preparation of this Report. NCRP also gratefully acknowledges financial support for this work provided by the U.S. Nuclear Regulatory Commission, the U.S. Environmental Protection Agency, and the Centers for Disease Control and Prevention.

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