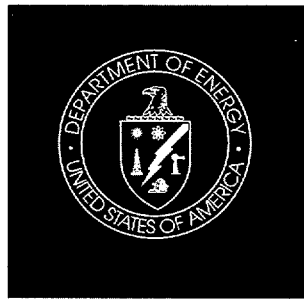
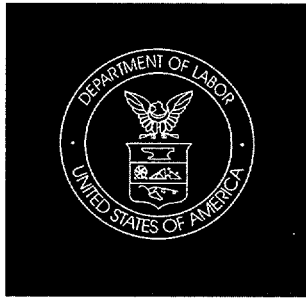
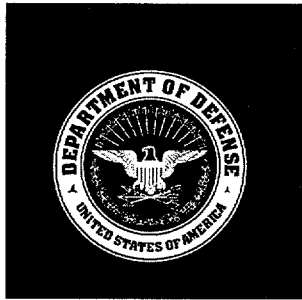
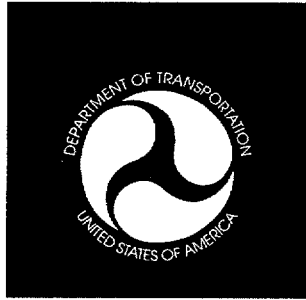
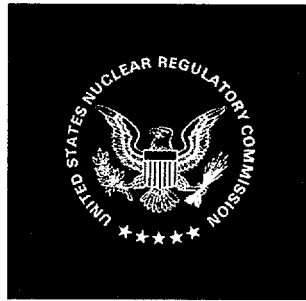


Interagency Steering Committee on Radiation Standards



2001 Annual Report



AVAILABILITY OF REFERENCE MATERIALS IN NRC PUBLICATIONS

NRC Reference Material

As of November 1999, you may electronically access NUREG-series publications and other NRC records at NRC's Public Electronic Reading Room at www.nrc.gov/NRC/ADAMS/index.html.

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2. The National Technical Information Service
Springfield, VA 22161-0002
www.ntis.gov
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Washington, DC 20555-0001
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Documents available from public and special technical libraries include all open literature items, such as books, journal articles, and transactions, *Federal Register* notices, Federal and State legislation, and congressional reports. Such documents as theses, dissertations, foreign reports and translations, and non-NRC conference proceedings may be purchased from their sponsoring organization.

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The NRC Technical Library
Two White Flint North
11545 Rockville Pike
Rockville, MD 20852-2738

These standards are available in the library for reference use by the public. Codes and standards are usually copyrighted and may be purchased from the originating organization or, if they are American National Standards, from—

American National Standards Institute
11 West 42nd Street
New York, NY 10036-8002
www.ansi.org
212-642-4900

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**INTERAGENCY STEERING COMMITTEE ON
RADIATION STANDARDS**

2001 ANNUAL REPORT

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FOREWORD


The Interagency Steering Committee on Radiation Standards (ISCORS) prepared this annual report for ISCORS member agencies, to document ISCORS' 2001 activities and accomplishments, and plans for the year 2002. We wish to thank the ISCORS members for their participation and contributions to the many topics discussed over the past year regarding radiation issues important to the public; federal, state, and local agencies; and national and international communities. In addition, we extend our compliments to all the subcommittee chairs and their members for significant support and accomplishments within the past year on numerous radiation issues, and for developing useful information, examples of which are attached in this report and on the ISCORS website (www.iscors.org). The subcommittees have outlined an aggressive list of challenges for 2002 and the full committee looks forward to receiving subcommittee recommendations on the specific topics each is addressing.

The full ISCORS met in March, June, and October 2001. The June 2001 meeting was open to the public for observation. At each full committee meeting, the subcommittees reported on their yearly activities and progress. The full committee also reviewed and received focused presentations on a wide variety of special topics, some of which included the following:

- Federal initiatives concerning protection of the environment from the effects of ionizing radiation.
- Long-term stewardship studies of the National Research Council's Board on Radioactive Waste Management.
- A State's approach for dealing with radioactivity in solid waste for disposal at landfills.

Over the past few years, the full ISCORS committee has established a strong intragovernmental working relationship that benefits each member agency and significantly aids in identifying topics of interest to each agency. For both member representatives and the public, the ISCORS process and accomplishments are made visible by the annual report. We appreciate comments on this annual report and will use them to consider how ISCORS might better carry out its responsibilities. You may send comments on the report to Mr. James A. Kennedy (U.S. NRC, Mail Stop T-7J8, Washington, DC 20555), or Ms. Kathryn Klawiter (U.S. EPA, Office of Radiation and Indoor Air (6608J), 1200 Pennsylvania Avenue, NW, Washington, DC 20460).

ISCORS Co-chairs:



Mr. John T. Greeves, Director
Division of Waste Management, Mail Stop
T-7J8
Office of Nuclear Material Safety and
Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555



Mr. Frank Marcinowski, Director
Radiation Protection Division
Office of Radiation and Indoor Air (6608J)
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460

HISTORICAL INFORMATION

The Interagency Steering Committee on Radiation Standards (ISCORS) was formed in response to October 27, 1994, letters from Senator John Glenn to the U. S. Nuclear Regulatory Commission (NRC) the U.S. Environmental Protection Agency (EPA); and the Office of Science and Technology Policy (OSTP). In this letter, Senator Glenn charged the EPA and the NRC, in coordination with the Committee on Interagency Radiation Research and Policy Coordination (CIRRPC), to develop a plan for a "path forward" to address the inconsistencies, gaps, and overlaps in current radiation protection standards. ISCORS is one of the committees OSTP recommended for achieving the goals of the now defunct CIRRPC. The objectives of the ISCORS include the following: (1) facilitating a consensus on acceptable levels of radiation risk to the public and workers; (2) promoting consistent risk-assessment and risk-management approaches in setting and implementing standards for occupational and public protection from ionizing radiation; (3) promoting completeness and coherence of federal standards for radiation protection; and (4) identifying interagency issues and coordinating their resolution.

Since its inception, the NRC and the EPA have co-chaired the ISCORS. The current co-chairs are John T. Greeves, NRC, and Frank Marcinowski, EPA. In addition to the NRC and the EPA, ISCORS membership also includes senior managers from the U.S. Department of Defense (DOD); the U.S. Department of Energy (DOE); the U.S. Department of Labor Occupational Safety and Health Administration (OSHA); the U.S. Department of Transportation (DOT); and the U.S. Department of Health and Human Services (HHS). Representatives of the Office of Management and Budget (OMB), OSTP, and various states are observers at meetings. Committee meetings involve pre-decisional intragovernmental discussions and, as such, are not normally open for observation by members of the public or media. However, summary meeting notes are available at the ISCORS website, (www.ISCORS.org). The Committee does not act as a decision-making body. Instead, it provides recommendations and summaries of its activities on specific issues to both the heads of member agencies, and to OMB and OSTP, via an annual report. The Committee meets approximately once each calendar quarter. It held its first meeting on April 5, 1995.

The full ISCORS committee has established subcommittees, as needed, to conduct its technical work (e.g., to address specific issues of concern or significant interest). ISCORS has formed the following subcommittees: Clean-up; Mixed Waste; Recycle; Risk Harmonization; Sewage Sludge; Naturally Occurring Radioactive Materials (NORM); and Federal Guidance. The subcommittee activity section of this report summarizes each subcommittee's activities. No new subcommittees were formed in 2001.

SUMMARY OF SUBCOMMITTEE ACCOMPLISHMENTS IN 2001 AND PLANNED ACTIVITIES FOR 2002

Clean-up Subcommittee Highlights

Subcommittee Chair: Cheryl Trotter, NRC (through June 21, 2001)

Subcommittee Chair: Anthony Wolbarst, EPA (202-564-9392)

The Clean-up Subcommittee serves as a forum for exchanging information and promoting partnerships addressing radiation clean-up standards and guidance.

Accomplishments in Calendar Year 2001 (CY 2001)

1. Internet-accessible Modeling Catalog. The subcommittee created an internet-accessible catalog to assist radionuclide environmental pathway model users in selecting a modeling tool for site cleanup decision making. For every model listed, the catalog provides a set of performance considerations and a description of the model's attributes, including: model assumptions and requirements; model parameters; model quality, defensibility, and history; and model administrative data.
2. Initiation of New Projects. The subcommittee members compiled a list of new projects of potential interest to their respective agencies, and narrowed the list to four projects by a multi-voting process. Each of the projects involves the creation of a catalog of information culled from existing sources, and the four will cover, respectively: parameter data resources; agency policies and practices for environmental pathway modeling; generic and real scenarios that have been used in modeling; and potential radiation hazards at non-radiation sites and non-radiation hazards at radiation sites.

Activities Planned for CY 2002:

The subcommittee will begin one or more of the following projects:

1. Create a catalog that provides an organized, searchable compilation of the references, compendiums, and databases of parameters used by environmental fate and transport models in dose and risk assessments. The catalog will provide modelers with an efficient means of locating extant sources of parameter values and distributions, including available information on the QA/QC of the data acquisition; it will also list any parameter default values recommended by agencies.
2. Create a catalog of existing information on federal and state agency policies and practices regarding environmental pathway modeling, including: rulemaking versus screening versus compliance demonstration modeling; model and data QA/QC requirements; deterministic versus probabilistic modeling; demonstration of compliance with dose/risk limits; conservative versus best estimate parameter values; determining the need for site-specific data; default values and distributions in the absence of site-

specific data; peak dose versus lifetime risk; dealing with background radiation; combined chemical and radiation risks; peer review; and expert judgement.

3. Create a descriptive atlas or catalog of generic and site-specific modeling scenarios currently in existence. The catalog will describe general approaches employed in the development of scenarios, and provide agencies and stakeholders with example scenarios to serve as templates for use in cleanup and other activities. Generic scenarios will include those dealing with sewage sludge and TENORM, or used in NRC and EPA cleanup rules. Site-specific scenarios will include NRC license termination, EPA Superfund remediation, and other agency programs.
4. Create a two-part descriptive catalog that focuses primarily on worker safety. The first part will include existing information and lessons learned regarding radiation hazards at non-radiation facilities, including: oil production and transport (waste water and oil scale), phosphate fertilizer, metal mining and processing waste, geothermal energy production wastes, water treatment plant residues, and landfills receiving such waste streams. It will also cover agency guidance on radiation landfills receiving such waste. The second part of the catalog will present information on potential chemical hazards at radiation sites, including methods of detection and related technical issues.

Mixed Waste Subcommittee Highlights

Subcommittee Chair: Gus Vazquez, DOE (202-586-7629)

The Mixed Waste Subcommittee is a forum for exchanging information on hazardous-radioactive waste (mixed waste).

Accomplishments in Calendar Year 2001 (CY 2001)

1. MW Rulemaking. The Subcommittee provided informal input to EPA's Office of Solid Waste regarding their May 2001 mixed waste rulemaking. The input came in the form of questions and issues raised.
2. Committee Discussions. Discussions on current mixed and radioactive waste initiatives and issues were held at each meeting.
3. DOE Radiological Control Criteria (RCC). Members provided informal input in the form of questions and suggestions on the RCC waste management study.
4. CRCPD E-5 Committee. Members informally provided ideas and suggestions to help answer the questions and issues raised by the CRCPD's E-5 Committee review. Members were briefed and provided copies of DOE's draft responses on the key issues in advance of the July meeting with the E-5 Committee. No RCC-related workshops were held in 2001 and, therefore, no Subcommittee participation took place. The E-5 Committee is, however, considering holding a workshop in CY 2002.

Activities Planned for CY 2002:

1. Hold discussions and exchanges on current MW initiatives and issues. Specifically, the Subcommittee efforts will continue to focus on the coordination and sharing of technical information for use by member agencies.
2. Provide input for implementation of EPA Office of Solid Waste MW rule, in particular, suggestions and comments on the Frequently Asked Questions (FAQ) draft document.
3. Provide suggestions regarding EPA Office of Radiation and Indoor Air low activity MW rulemaking expected to be reconsidered in CY 2002.
4. Participate in, and provide input on, CRCPD's RCC Workshop expected to be held in CY 2002, and include several Subcommittee members and other representatives of the waste management industry.

Recycle Subcommittee Highlights

Subcommittee Chair: Robert A. Meck, NRC (301-415-6205)

The Recycle Subcommittee reviews issues on radiological control of materials.

Accomplishments in CY 2001:

1. Federal Agency Activities --The subcommittee kept well informed of federal agency activities and international developments. Noteworthy developments included the Programmatic Environmental Impact Statement process of DOE on the disposition of metals with very low levels of associated radioactivity. Active information exchanges informed other agencies on the NRC's efforts to consider alternatives for disposition of solid materials with very low levels of associated radioactivity. These exchanges included the progress of the National Academies' review of the subject. Updates were provided on the EPA's screening of off-loaded scrap at a port in Louisiana.
2. International Developments --The International Atomic Energy Agency (IAEA) shifted from deriving concentrations for clearance to proposing concentrations that would define the scope of regulations. The subcommittee used its interagency representation to develop a U.S. position on the draft IAEA Safety Guide on commodities.
3. Orphan Source Control --The subcommittee kept informed on the CRCPD and Federal agencies' program to identify and control orphan sources. To date three States have signed agreements and a fourth State's agreement is being processed.
4. Membership --The subcommittee was successful in recruiting new members to ensure a broad representation of federal agencies.
5. Forum --The subcommittee continued as an information exchange and met when members expressed a need for information exchange on a topic in scope.

Activities Planned for CY 2002:

1. Provide a forum for interagency information exchanges in the areas of clearance, authorized release of solid materials with very low levels of associated radioactivity, orphan source identification and control, import and export issues.
2. Continue to recruit members from agencies that could be impacted by regulations in the areas addressed by this subcommittee.

Risk Harmonization Subcommittee Highlights

Subcommittee Chair: Edward Regnier, DOE (202-586-5027)

The Risk Harmonization Subcommittee was initiated to review similarities and differences between NRC and EPA risk assessment and risk management approaches.

Accomplishments in CY 2001:

1. Institutional Controls Task Group - This subcommittee task group continued to explore the use of institutional controls as an integral part of an overall protective approach for disposal of waste. Institutional controls may include controlling site access, permanent markers, intrusion barriers, government land ownership, maintenance and monitoring, and preservation of knowledge in public records and archives. Subsequent to this task groups' development of fact sheets and tables describing institutional control requirements in statutes and regulations, new EPA and NRC regulations governing HLW disposal in a potential repository at Yucca Mountain, Nevada were published. EPA's regulations are contained in 40 CFR 197, and NRC's in 10 CFR Part 63. The task group is adding these regulations to the previously issued tables. The task group has worked on drafting a narrative describing the tables and a white paper discussing philosophies and issues concerning the use of institutional controls.
2. Optimization Task Group - This subcommittee task group is studying the use of various optimization methods (e.g., cost-benefit analysis, ALARA analysis, multi-attribute utility analysis) and how they support decision making in relation to regulatory processes. The project will identify similarities and differences in use of optimization under various statutes and regulations, in different media, and by different agencies. Opportunities for harmonization of risk management techniques are being investigated. In 2001, the group worked on developing tables which describe the requirements for and conditions on use of optimization delineated in statutes, Executive orders, and OMB guidance.
3. Interagency Risk Harmonization Information Forum - The subcommittee facilitated information exchange and coordination between the agencies on issues and events related to risk management through discussions during subcommittee and task group meetings and conference calls.

Activities Planned for CY 2002:

1. Review the Environmental Law Institute/Johns Hopkins report "Chemical and Radiation Environmental Risk Management at the Crossroads: Case Studies". Summarize the report results for ISCORS and recommend any appropriate follow-up ISCORS activities. This report was published in December 2001, and contains a detailed analysis of the clean up decisions made at six sites across the country. It analyzes how radiation and chemical risks were addressed, and identifies the risk harmonization challenges. The
2. Report is a follow-up to a 1998 workshop that examined the similarities and differences in chemical and radiation risk management. Many ISCORS members participated in that workshop.

3. Complete a review of requirements in statutes, Executive orders, and OMB guidance related to the use of optimization methods to support regulatory decision making.
4. Incorporate 40 CFR 197 and 10 CFR Part 63, the new regulations for geologic disposal of HLW at Yucca Mountain, into the institutional control tables. Complete a narrative description of these tables.
5. Provide a continuing forum for information exchange and coordination between the agencies on matters related to risk assessment and risk management.

Sewage Sludge Subcommittee Highlights

Subcommittee Co-chairs: Bob Bastian, EPA (202-260-7378)
Rosemary Hogan, NRC (301-415-7484)

The Sewage Sludge Subcommittee is conducting an NRC/EPA joint survey to collect information concerning radioactive materials in sewage sludge and ash from sewage treatment plants [referred to in industry as publicly owned treatment works (POTWs)]. This survey is being conducted to respond to recommendations from the General Accounting Office to 1) determine the extent to which radioactive contamination of sewage sludge and ash is occurring; 2) notify the POTWs that receive discharges from NRC's and Agreement State's licensees of the potential for radioactive concentration in the sludge and the possibility that they may need to test or monitor their sludge for radioactive content; and 3) establish limits for radioactivity in sludge and ash to ensure the health of treatment plant workers and the public.

Accomplishments in CY 2001:

1. Sewage Sludge Survey Results and Analysis -The sample analysis phase of the survey was completed and the final laboratory results were provided to the Subcommittee in October 2001. The survey consisted of 35 ash and 311 sludge samples at 315 facilities. The data were entered into the database and summary tables were prepared for Subcommittee review. The first draft of the "Joint NRC/EPA Sewage Sludge and Ash Radiological Survey: Survey Results and Analysis" was issued to ISCORS in October 2001.
2. Dose Assessment -The EPA Science Advisory Board (SAB)/Radiation Advisory Committee (RAC) completed its advisory review of the November 2000 draft and provided recommendations to the Subcommittee in September 2001. The document was revised to respond to the RAC recommendations, and public comments and a revised draft were issued in November 2001.
3. Members of the Subcommittee presented results of the laboratory analyses and information on the dose modeling methodology to the annual meeting of the Association of Metropolitan Sewerage Agencies (AMSA)/EPA Pretreatment Coordinators workshop in November 2001.

Activities Planned for CY 2002:

1. The Subcommittee plans to meet with AMSA to learn the status of the National Biosolids Partnership's independent dose modeling activities.
2. Issue final Dose Assessment Report.
3. Issue final Survey Results and Analysis.
4. Present results of the survey at the annual public meeting of ISCORS in July 2002.
5. Issue final Guidance Document for POTWs.

NORM Subcommittee Highlights

Subcommittee Chair: Loren Setlow, EPA (202-564-9445)

The NORM Subcommittee mission is to ensure effective communication and coordination among member agencies involved with regulatory, oversight, and disposal issues for naturally-occurring radioactive materials (NORM) and products containing NORM.

Accomplishments in CY 2001:

1. Held three meetings during 2001, with members from seven Federal and one State agency.
2. Provided a forum for exchanging information on current agency activities, proposed regulations, new reports, and planned international meetings at which NORM issues were to be discussed.
3. Gave member agencies first hand opportunities to be briefed on the CRCPD Part N Implementation Plan, plus the status of the NRC Jurisdictional Working Group study on oversight of source materials containing less than <0.05% uranium and thorium, and for uranium/thorium mineral extraction and processing operations.
4. Provided member agencies with information on recent reports of NORM litigation regarding heavy mineral sands and oil scale contamination in the U.S., and a report on removal/cleanup actions by the EPA for two uranium mining spoil contaminated houses on Navajo Tribal lands.
5. Provided member agencies with briefings on the status of ISCORS Sewage Sludge and Ash POTW survey and radiological analyses, EPA's Colorado Plateau uranium mine sites GIS, DOT's proposed rulemaking on radioactive material transport, and EPA's draft Technical Report on Uranium Mining TENORM.
6. Discussed the status of ISCORS Federal Guidance Subcommittee efforts to develop new draft guidance for the public.
7. Continued drafting of a white paper on agency responsibilities for TENORM. The purpose of the White Paper is to provide to ISCORS, the NRC Jurisdictional Working Group, and the public a document that would explain each member agency's role and responsibility in the oversight and regulation of sources of NORM/TENORM.

Activities Planned for CY 2002:

1. Complete the white paper on agency responsibilities for TENORM.
2. Provide input, as appropriate, to ongoing projects of the ISCORS Federal Guidance Subcommittee, and review reports prepared by the Sewage Sludge and Ash Subcommittee.

3. Review and comment on EPA's draft Technical Report on Uranium Mining TENORM when available.
4. Continue to receive updates on the CRCPD Part N model regulation, and ANSI draft standard for TENORM.
5. Provide comments on draft IAEA and other international reports on NORM/TENORM obtained by member agencies.

Federal Guidance Subcommittee Highlights

Subcommittee Chair: Julie Rosenberg, EPA (through October 30, 2001)

Acting Subcommittee Chair: Michael Boyd, EPA [(202) 564-9395]

This subcommittee works with the EPA to produce Federal Guidance, including Presidential Guidance and technical reports, that supports the development of consistent national radiation protection standards and implementing guidance. The subcommittee serves as the forum for coordination among federal and state government agencies interested in any or all aspects of Federal Guidance. The forum ensures that all agencies have opportunities for input before and during development of Federal Guidance.

Accomplishments in CY 2001:

1. Protective Action Guides (PAGs) - The subcommittee was prepared to review any updates to the Protective Action Guides (PAGs) for possible publication as a Federal Guidance Technical Report. No updates were completed in 2001.
2. White Paper on New Dosimetric Methods - The subcommittee reviewed a technical analysis prepared by Oak Ridge National Laboratory (ORNL) titled "Dosimetric Significance of the ICRP's Updated Recommendations, 1989-Present, and Implications for Federal Guidance." This report and related policy issues were discussed at an interagency meeting held at the Nuclear Regulatory Commission (NRC) headquarters on May 30, 2001. This meeting was attended by several subcommittee members and their managers, but was not a subcommittee meeting. The subcommittee continued to work on developing a broader analysis of the economic and regulatory implications of adopting newer dosimetric methods published by the International Commission on Radiological Protection (ICRP) in their Publication 60 (1992). Some cost data was collected from the NRC that relates to their changeover from ICRP Publication 2 dosimetry methodology to the ICRP Publication 26 methodology which became effective in 1990.
3. Federal Guidance for the General Public (FGGP) - This updated guidance, which would be signed by the President, advises federal agencies on protection of the general public from exposure to ionizing radiation. The current guidance dates back to the Eisenhower administration and was signed in 1960. The major effort during 2001 was conducted internal to EPA, where EPA personnel completed a draft of the new guidance that was approved by an intra-agency work group. The subcommittee received this draft on October 15, 2001. Subcommittee members provided some early comments to the EPA; however, the interagency review process was still underway at the close of the year.
4. Risk-Dose Methodology - The subcommittee approved a short methodology for estimating the cancer risk from a known radiation dose (total effective dose equivalent) when radionuclide-specific information is missing. This document was presented to ISCORS at the October meeting. The decision on whether to publish this as an ISCORS document is on hold pending resolution of comments raised at that meeting.
5. Ecorisk - The subcommittee established an informal working group (the ECORAD-WG) to focus its discussions concerning methods and guidance development regarding the evaluation of radiation as a stressor to the environment. Individual agencies within

ISCORS have been actively developing guidance and approaches for evaluating doses to biota, and some of these activities are being coordinated for the subcommittee through this working group. Several agencies (EPA, NRC, and DOE) are collaborating on a pilot project to develop a RESRAD-BIOTA code for biota dose evaluation for regulatory compliance under AEA requirements. The DOE gave a formal presentation regarding a national approach to biota dose evaluation, an overview of ECORAD-WG activities, and the status of international activities related to environmental protection at the June ISCORS meeting, which was open to the public. Representatives from DOE, EPA, and NRC also attended a specialists' meeting on this topic held by the International Atomic Energy Agency (IAEA) in Vienna, Austria, in November 2001. The outcome of this meeting was reported at the January 2002 ISCORS meeting.

Activities Planned for CY 2002:

1. Present a preliminary analysis of the economic and regulatory implications of adopting an ICRP Publication 60-based dosimetry system in the U.S. to ISCORS. Include an analysis of recent ICRP draft proposals and their possible impact on current recommendations of ICRP 60. The subcommittee's report (or white paper) will be designed to facilitate ISCORS deliberations.
2. Task all interested ISCORS agencies to provide written comments to EPA on the October 2001 draft of the Federal Guidance for the General Public. If consensus is reached by ISCORS and its member agencies, proceed with plans to publish the Federal Guidance for the General Public in the Federal Register and collect public comments.
3. Continue using the subcommittee as a forum for discussing issues and reviewing material related to protection of the environment from radioactivity. Keep ISCORS informed of developments in this area.

ISCORS MEMBER LIST

EPA

Mr. Stephen Page, Director 202-564-9340
Office of Radiation and Indoor Air (6608J)
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

Mr. Frank Marcinowski, Director (ISCORS Co-chair) 202-564-9290
Radiation Protection Division fax: 202-565-2065
Office of Radiation and Indoor Air (6608J) marcinowski.frank@epa.gov
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

Mr. Behram Shroff (2001 ISCORS coordinator) 202-564-9707
Radiation Protection Division fax: 202-565-2065
Office of Radiation and Indoor Air (6608J) shroff.behram@epa.gov
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

NRC

Dr. Carl Paperiello, Deputy Executive Director for Materials 301-415-7800
Research and State Programs
Office of the Executive Director for Operations, Mail Stop O-16E15
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. John T. Greeves, Director (ISCORS Co-chair) 301-415-7437
Division of Waste Management (DWM), Mail Stop T-7J8 fax: 301-415-5397
Office of Nuclear Material Safety and Safeguards jtj1@nrc.gov
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. James Kennedy (ISCORS coordinator) 301-415-7269
Division of Waste Management (DWM), Mail Stop T-7J8 fax: 301-415-5397
Office of Nuclear Material Safety and Safeguards jek1@nrc.gov
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

DOD

Mr. D. Michael Schaeffer 703-325-2407
Defense Threat Reduction Agency/NSSN fax: 703-325-2951
6801 Telegraph Road dennis.schaeffer@dtra.mil
Alexandria, VA 22310-3398

COL Robert Cherry (alternate) 703-601-2413
HQDA (DACS-SF) robert.cherry@hqda.army.mil
200 Army Pentagon
Washington, D.C. 20310-0200

DOE

Mr. Andy Wallo, EH-41, Director
Air, Water, and Radiation Division
U.S. Department of Energy
Washington, D.C. 20585

202-586-4996
fax: 202-586-3915
andrew.wallo@eh.doe.gov

Ms. Colleen Ostrowski (ISCORS Coordinator)
Air, Water and Radiation Division
U.S. Department of Energy
Washington, D.C. 20585

202-586-4997
fax: 202-586-3915
colleen.ostrowski@eh.doe.gov

DOL/OSHA

Mr. Steven Witt, Director
Health Standards Programs
Occupational Safety and Health Administration
U.S. Department of Labor
Room N-3718
200 Constitution Avenue, N.W.
Washington, DC 20210

202-693-1950
fax: 202-693-1678
steven.witt@osha.gov

Dr. Chia Chen, Senior Industrial Hygienist
Occupational Safety and Health Administration
U.S. Department of Labor
Room N-3718
200 Constitution Avenue, N.W.
Washington, D.C. 20210

202-693-2266
fax: 202-693-1678
chia.chen@osha-no.osha.gov

DOT

Mr. Robert A. McGuire, Associate Administrator
Office of Hazardous Materials Safety, DHM-1
U.S. Department of Transportation
400 Seventh Street, S.W.
Washington, D.C. 20590

202-366-0656
fax: 202-366-5713
robert.mcguire@rspa.dot.gov

Mr. Rick Boyle, Chief
Radioactive Materials Branch, DHM-23
U.S. Department of Transportation
400 Seventh Street, S.W.
Washington, D.C. 20590

202-366-4545
fax: 202-366-3753
rick.boyle@rspa.dot.gov

Mr. Fred Ferate
Radioactive Materials Branch, DHM-23
U.S. Department of Transportation
400 Seventh Street, S.W.
Washington, D.C. 20590

202-366-4498
fax: 202-366-3753
fred.ferate@rspa.dot.gov

HHS

Dr. Bruce Wachholz, Chief
Radiation Effects Branch
National Cancer Institute
Executive Plaza North, Suite 530
Bethesda, MD 20892

301-496-9326
fax: 301-496-1224
bw36i@nih.gov

OBSERVER MEMBERS

Office of Science and Technology Policy

Mr. Robert Marianelli
Office of Science and Technology Policy
17th & Pennsylvania Avenue, N.W.
Washington, DC 20500

202-456-6134
fax: 202-456-6027
rmariane@ostp.eop.gov

Dr. Miriam Forman
Office of Science and Technology Policy
17th & Pennsylvania Avenue, N.W.
Washington, DC 20500

202-456-6134
fax: 202-456-6027
mforman@ostp.eop.gov

Office of Management and Budget

Mr. Bryon Allen
Natural Resources Branch
Office of Information and Regulatory Affairs
Room 10202
New Executive Office Building
725 17th Street
Washington, DC 20503

202-395-3087
fax: 202-395-7285
bryon_p._allen@omb.eop.gov

State Observers

Dr. Jill Lipoti, Assistant Director
Radiation Protection Programs
Division of Environmental Safety, Health
and Analytical Programs
Department of Environmental Protection
P.O. Box 415
Trenton, NJ 08625-0415

609-984-5636
fax: 609-984-7513
jlipoti@dep.state.nj.us

Mr. Steve Collins
Illinois Department of Nuclear Safety
Office of Radiation Safety
1035 Outer Park Drive
Springfield, IL 62704

217-785-6982
fax: 217-782-1328
collins@idns.state.il.us

SUBCOMMITTEE MEMBER LIST

Subcommittee members conduct reviews on specific issues to bring to the full ISCORS membership for consideration and decisions.

CLEANUP SUBCOMMITTEE

ORGANIZATIONS	MEMBERS	PHONE NUMBER
NRC	Cheryl Trottier, Chair	301-415-6232
EPA	Tony Wolbarst, Chair (6-21-01)	202-564-9392
	Weihseh Chiu	
	Bonnie Gitlin	
	Ben Hull	
	Stuart Walker	
NRC	Ralph Cady	
	Boby Abu-Eid	
	Sandra Wassler	
DOD	Julie Peterson	
	Richard Wright	
DOE	Stephen Domotor	
States	Debra McBaugh, Washington	

MIXED WASTE SUBCOMMITTEE

ORGANIZATIONS	MEMBERS	PHONE NUMBER
DOE	Gus Vazquez, Chair	202-586-7629
	Jim Antizzo	
	William Fortune	
	Ed Regnier	
	Andy Wallo	
EPA	Nancy Hunt	
	David Levenstein	
	Dan Schultheisz	
NRC	Tim Harris	
DOD	Kelly Crooks	
DOT	Fred Ferate	
States	Paul Merges, New York	

RECYCLE SUBCOMMITTEE

ORGANIZATIONS	MEMBERS	PHONE NUMBER
NRC	Robert Meck, Chair Doug Broaddus Elaine Brummett Frank Cardile Carl Feldman Giorgio Gnugnoli Tony Huffert	301-415-6205
EPA	Deborah Kopsick	
DOD	CAPT Dave Farrand	
DOE	Lee Bishop John Neave Gus Vazquez	
DOL/OSHA States	Chia Chen Steve Collins, Illinois	

RISK HARMONIZATION SUBCOMMITTEE

ORGANIZATIONS	MEMBERS	PHONE NUMBER
DOE	Edward Regnier, Chair Colleen Ostrowski	202-586-5027
EPA	Mike Boyd Ernesto Brown David Pawel Stuart Walker	
NRC	James Danna Vince Holahan James Kennedy	
DOD	Michael Schaeffer	
DOL/OSHA	Chia Chen	
DOT	Fred Ferate	
States	Jill Lipoti, New Jersey	
Institutional Controls Workgroup		
NRC	James Kennedy	
EPA	Ernesto Brown	
DOE	Colleen Ostrowski	
Optimization Workgroup		
NRC	James Danna	
EPA	Mike Boyd	
DOE	Ed Regnier	

SEWAGE SLUDGE SUBCOMMITTEE

ORGANIZATIONS	MEMBERS	PHONE NUMBER
EPA	Bob Bastian, Co-Chair Weihsueh Chiu Mark Doehnert Alan Rubin David Saunders Behram Shroff Scott Telofski Mary Wisdom Anthony Wolbarst	202-260-7378
NRC	Rosemary Hogan, Co-Chair Lee Abramson Stephen Salomon Duane Schmidt	301-415-7484
DOD DOE	Roy Lovett James Bachmaier Judy Odoulamy Harold Peterson	
States Local Government	Jill Lipoti, New Jersey Kevin Aiello, Middlesex County Utilities Authority Tom Lenhart, Northeast Ohio Regional Sewer District	

NORM SUBCOMMITTEE

ORGANIZATIONS	MEMBERS	PHONE NUMBER
EPA NRC DOE	Loren Setlow, Chair James Kennedy Bill Hochheiser Alexander Williams	202-564-9445
DOT	Rick Boyle Fred Ferate	
OSHA/DOL DOD	Chia Chen CMDR Bill Adams Ramchandra Bhat CAPT Julie Coleman CAPT David Farrand	
HHS States	CMDR Shawn Googins Thomas Hill, Georgia	

FEDERAL GUIDANCE SUBCOMMITTEE

ORGANIZATIONS	MEMBERS	PHONE NUMBER
EPA	Julie Rosenberg, Chair	202-564-9154
	Mike Boyd, Acting Chair (10-30-01)	202-564-9395
	Keith Matthews	
	Scott Monroe	
	Phillip Newkirk	
	Jerry Puskin	
	Lowell Ralston	
	Loren Setlow	
	Stuart Walker	
	NRC	Roger Pedersen
Sami Sherbini		
Vince Holahan		
DOE	Steve Domotor	
	Diane Larsen	
	Hal Peterson	
	Andy Wallo	
DOT	Fred Ferate	
HHS	Bruce Wachholz	
OSHA/DOL	Chia Chen	
DOD	Mike Schaeffer	
States	John Erickson, Washington	

APPENDIX A
ISCORS Charter

CHARTER FOR
INTERAGENCY STEERING COMMITTEE ON RADIATION STANDARDS

Purpose of Committee

The purpose of this committee is to foster early resolution and coordination of regulatory issues associated with radiation standards.

Membership

1. Agencies represented on the committee include the U.S. Environmental Protection Agency, U.S. Nuclear Regulatory Commission, U.S. Department of Energy, U.S. Department of Defense, U.S. Department of Transportation, the Occupational Safety and Health Administration of the U.S. Department of Labor, the U.S. Department of Health and Human Services, and any successor agencies.
2. The Office of Science and Technology Policy and the Office of Management and Budget will be invited as observers at meetings because of their responsibilities for coordination of science policy and regulation policy, respectively.
3. The committee will be co-chaired by the EPA and NRC representatives for the first two years, after which the committee will determine whether the chairmanship should be rotated among additional agencies, or whether the chairmanship should be held by a single agency.
4. Other departments and agencies will be invited to participate in forming consensus for specific issues as voting members when their interests and responsibilities are involved.

Objectives

The objectives of the committee include the following:

1. Facilitate a consensus on allowable levels of radiation risk to the public and workers.
2. Promote consistent and scientifically sound risk assessment and risk management approaches in setting and implementing standards for occupational and public protection from ionizing radiation.
3. Promote completeness and coherence of Federal standards for radiation protection.
4. Identify interagency radiation protection issues and coordinate their resolution.

Implementation

The committee will conduct its activities in accordance with the attached understandings and procedures.

UNDERSTANDINGS AND PROCEDURES FOR
THE INTERAGENCY STEERING COMMITTEE ON RADIATION STANDARDS

Participation

1. Various offices and agencies within each agency may participate in the committee meetings. Each agency will develop a unified position and present that position at committee meetings. Each agency representative is responsible for developing their coordinated agency position in preparation for reaching committee consensus.
2. Agencies will be represented at the meetings by senior level, career government employees, who are engaged in policy matters for the agency.
3. Official agency representatives will be identified in writing to the co-chairpersons by the Assistant Administrator, Secretary, or Commissioner, as appropriate.
4. Committee meetings involve pre-decisional intragovernmental discussions and, as such, are not open for observation by members of the public or media.
5. The committee may, from time to time, revise the charter based on the consensus views of the committee, including such items as membership, responsibility for chairing the committee, and objectives.

Decisions

1. The committee has not been delegated any authorities established by law, regulation, Executive Order, or other administrative mechanism to act in lieu of formal agency action. The objectives of the committee are described in the committee charter.
2. The committee will make every effort to base decisions on consensus. Consensus reflects acceptance among the voting agencies.
3. Each agency will have a single vote in reaching consensus on specific issues. If a consensus cannot be reached, committee recommendations will reflect the lack thereof and include the opportunity for agencies to attach minority views to any documentation of the recommendations.
4. Recommendations on specific issues will be provided to the heads of member agencies, OMB, and OSTP.

Meetings

1. Responsibility for hosting the meetings will rotate among the agencies. The host agency is responsible for developing a mutually agreeable meeting date and time, informing the agencies at least two weeks in advance of the

meeting date, distributing a draft agenda for the meeting, arranging for a meeting facility, and documenting and distributing summary meeting notes.

2. Summary meeting notes will be provided by the host agency to designated representatives of each of the member agencies, OMB, OSTP, and, as appropriate, Congressional contacts and other groups. The host agency will distribute draft notes within one week of the committee meeting and final meeting notes at least two weeks before the next committee meeting. NRC will also place a copy of the summary meeting notes in the Public Document Room.

3. The committee will establish a plan for approximately a six-month period. Specific agendas will be developed for each meeting based on the general plan.

4. The committee will meet approximately once each calendar quarter, with more frequent meetings, as needed to address specific issues.

Subcommittees

1. The committee may create subcommittees to focus on specific issues or activities (e.g., recycling criteria, risk harmonization, cleanup standards). Subcommittees will follow the same understandings and procedures as the full committee.

2. Subcommittees will meet at a frequency and location as determined necessary by the subcommittee.

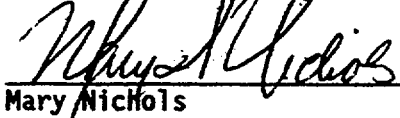
FOR THE U.S. NUCLEAR REGULATORY COMMISSION,



Hugh L. Thompson, Jr.
Deputy Executive Director for
Nuclear Materials Safety,
Safeguards and Operations Support

12-18-95
Date

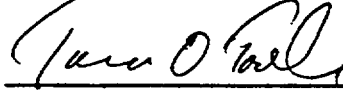
FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY,



Mary Nichols
Assistant Administrator
Office of Air and Radiation

1-16-96
Date

FOR THE U.S. DEPARTMENT OF ENERGY,



Tara O'Toole, M.D., M.P.H.
Assistant Secretary for
Environment, Safety and
Health

2/4/96
Date

FOR THE U.S. DEPARTMENT OF DEFENSE,



Paul G. Kaminski
Under Secretary of Defense
(Acquisition & Technology)

JUL 12 1996
Date

FOR THE U.S. DEPARTMENT OF TRANSPORTATION,



Dr. Dharmendra K. Sharma
Administrator
Research and Special Programs
Administration

OCT 24 1996
Date

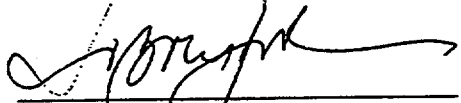
FOR THE U.S. DEPARTMENT OF LABOR,



Greg Watchman
Acting Assistant Secretary for
Occupational Safety and
Health Administration

3/21/97
Date

FOR THE US DEPARTMENT OF HEALTH AND HUMAN SERVICES



Jo Ivey Boufford, M.D.
Acting Assistant Secretary for Health

5-16-97

Date

APPENDIX B
Glossary

ACRONYM LIST

ALARA	As low as is reasonably achievable (radiation dose)
AMSAWEF	American Metropolitan Sewage Association/ Water Environmental Federation
ANSI	American National Standards Institute
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CIRRPC	Committee for Interagency Radiation Research and Policy Coordination
CRCPD	Conference of Radiation Control Program Directors
HHS	Department of Health and Human Services
DOE	Department of Energy
DOL	Department of Labor
DOT	Department of Transportation
ELI	Environmental Law Institute
EPA	Environmental Protection Agency
IAEA	International Atomic Energy Agency
ICRP	International Commission on Radiation Protection
ISCORS	Interagency Steering Committee on Radiation Standards
NAS	National Academy of Science
NCRP	National Council on Radiation Protection and Measurements
NORM	Naturally Occurring Radioactive Material
NRC	Nuclear Regulatory Commission
OMB	Office of Management and Budget
OSHA	Occupational Safety and Health Administration
OSTP	Office of Science and Technology Policy
PAG	Protective Action Guides
POTW	Publicly-Owned Treatment Works
RCC	Radiological Control Criteria
RCRA	Resources Conservation and Recovery Act
TENORM	Technologically Enhanced Naturally Occurring Radioactive Material

Radiation Unit Abbreviations

mrem/y	millirem/year
Sv/a	Sievert per annum

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Behram Shroff, U.S. Environmental Protection Agency
Kathryn Klawiter, U.S. Environmental Protection Agency
James Kennedy, U.S. Nuclear Regulatory Commission

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Division of Waste Management, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington DC 20555

9. SPONSORING ORGANIZATION - NAME AND ADDRESS *(If NRC, type "Same as above"; if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)*

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10. SUPPLEMENTARY NOTES

11. ABSTRACT *(200 words or less)*

The Interagency Steering Committee on Radiation Standards (ISCORS) prepared this annual report for ISCORS members agencies to document ISCORS' year 2001 activities, and plans for the year 2002. The report identifies both past accomplishments and goals for the future. The objectives of ISCORS include: (1) facilitating a consensus on acceptable levels of radiation risk to the public and workers; (2) promoting consistent risk assessment and risk management approaches in setting and implementing standards for occupational and public protection from ionizing radiation; (3) promoting completeness and coherence of Federal standards for radiation protection; and (4) identifying interagency issues and coordinating their resolution.

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