

Rec'd 1/10/07



Department of Energy

Washington, DC 20585

January 9, 2007

MEMORANDUM FOR MARY F. HAUGHEY
OFFICE OF NUCLEAR SAFETY AND
ENVIRONMENTAL POLICY
OFFICE OF NUCLEAR SAFETY
AND ENVIRONMENT

FROM: BILL R. MCARTHUR, PhD, CIH
DIRECTOR
OFFICE OF WORKER SAFETY
AND HEALTH POLICY
OFFICE OF HEALTH AND SAFETY

SUBJECT: Change Notice and Reaffirmation of Department of Energy
Handbooks

On October 19, 2006, the Office of Worker Safety and Health Policy sent a "Notice of Intent to Reaffirm Department of Energy (DOE) Handbooks" to DOE Technical Standards Managers. The notice specified the Office's intent to reaffirm seven handbooks:

- DOE HDBK-1145-2001, "Radiological Safety Training for Plutonium Facilities"
- DOE HDBK-1143-2001, "Radiological Control Training for Supervisors"
- DOE HDBK-1141-2001, "Radiological Assessor Training"
- DOE HDBK-1108-2002, "Radiological Safety Training for Accelerator Facilities"
- DOE HDBK-1106-97, "Radiological Contamination Control for Laboratory Research"
- DOE HDBK-1105-2002, "Radiological Training for Tritium Facilities"
- DOE HDBK-1109-97, "Radiological Safety Training for Radiation-Producing (X-Ray) Devices"

The Office of Worker Safety and Health Policy has resolved all comments received as a result of the notice and has made several administrative changes to the handbooks to recognize the recent reorganization into the Office of Health, Safety and Security.

This memorandum reaffirms and forwards changes to the above handbooks. Attachments 1 through 7 are the table of changes for each handbook. Attachment 8 is a disk of the revised documents in pdf format. If there are any questions, please contact Peter O'Connell at Peter.O'Connell@hq.doe.gov or at 3-5641.

8 Attachments

cc w/o attachments: Jeff Feit, HS-21



**Change Notice 1. Radiological Safety Training for Plutonium Facilities
DOE-HDBK-1145-2001**

Page/Section	Change
iii	<p>Change: Copies of this Handbook may be obtained from either the DOE Radiation Safety Training Home Page Internet site (http://tis.eh.doe.gov/whs/rhmwp/rst/rst.htm) or in PDF format from the DOE Technical Standards Program Internet site (http://tis.eh.doe.gov/techstds/). Documents downloaded from the DOE Radiation Safety Training Home Page Internet site may be manipulated using the software noted above.</p> <p>To: Copies of this Handbook may be obtained from the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).</p>
Cover sheets parts 1 through 5	<p>Change: Office of Environment, Safety & Health Office of Worker Protection Policy and Programs</p> <p>To: Office of Health, Safety and Security Office of Worker Safety and Health Policy</p>
Part 1, page 2, 1 st para	<p>Change: The DOE Office of Environment, Safety, and Health's Office of Worker Protection Policy and Programs (EH-52) is responsible for approving and maintaining radiation protection training materials. An oversight group consisting of representatives from Programs and Operations Offices and the major contractors will review comments and recommend program changes to EH.</p> <p>To: The DOE Office of Health, Safety and Security's Office of Worker Safety and Health Policy (HS-11) is responsible for approving and maintaining radiation protection training materials. An oversight group consisting of representatives from Programs and Operations Offices and the major contractors will review comments and recommend program changes to HSS.</p>
Part 1, page 9, last sentence	Change "DOE/EH" to "DOE/HSS"

**Change Notice 1. Radiological Control Training for Supervisors
DOE-HDBK-1143-2001**

Page/Section	Change
iii Last para	Change: Word 97 To Word 2003 Change: Copies of this Handbook may be obtained from either the DOE Radiation Safety Training Home Page Internet site (http://tis.eh.doe.gov/whs/rhmwp/rst/rst.htm) or in PDF format from the DOE Technical Standards Program Internet site (http://tis.eh.doe.gov/techstds/). Documents downloaded from the DOE Radiation Safety Training Home Page Internet site may be manipulated using the software noted above. To: Copies of this Handbook may be obtained from the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).
Cover sheets parts 1 through 5	Change: Office of Environment, Safety & Health To: Office of Health, Safety and Security
Part 1, page 2, 2nd last para	Change: The DOE Office of Environment, Safety, and Health's Office of Worker Protection Policy and Programs (EH-52) is responsible for... To: The DOE Office of Health, Safety and Security's Office of Worker Safety and Health Policy (HS-11) is responsible for
Part 1, page 8, top line	Change "DOE/EH" to "DOE/HSS"
Part 2, 1 - 8 Part 4, 1-6	Change: EH-52 To: HS-11 Change: http://tis.eh.doe.gov/whs/rhmwp/regs.html To: "Insert appropriate URL"
Part 2, 1 - 9 and 1 - 14 Instructor's notes	Replace two URLs with "Insert appropriate URL"
Part 2, 1 - 12 Part 4, 1 - 10	Change: Office of Enforcement and Investigation (EH -10) To: Office of Enforcement (HS -40)
Part 2, 1 - 13 Instructor's notes	Change: http://tis.eh.doe.gov/whs/rhmwp/exemption.html To: Insert appropriate URL
Part 2, 1-13 Part 4, 1 - 11	Change: Assistant Secretary for Environment, Safety and Health (EH-1) To: Chief Health, Safety and Security Officer (HS -1)

**Change Notice 1. Radiological Assessor Training
DOE-HDBK-1141-2001**

Page/Section	Change
Intro iii	<p>Change: This Handbook was produced in Microsoft Word 97 and has been formatted for printing on a HP 4M (or higher) LaserJet printer. Overheads were produced in Powerpoint. Copies of this Handbook may be obtained from either the DOE Radiation Safety Training Home Page Internet site (http://tis.eh.doe.gov/whs/rhmwp/rst/rst.htm) or in PDF format from the DOE Technical Standards Program Internet site (http://tis.eh.doe.gov/techstds/standard/standfrm.html). Documents downloaded from the DOE Radiation Safety Training Home Page Internet site may be manipulated using the software noted above.</p> <p>To: This Handbook was produced in Microsoft Word and has been formatted for printing on a HP 4M (or higher) LaserJet printer. Overheads were produced in Powerpoint. Copies of this Handbook may be obtained from either the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).</p>
Cover sheets parts 1 through 5	<p>Change: Office of Environment, Safety & Health To: Office of Health, Safety and Security</p>
Part 1, page 2, 2nd last para	<p>Change: DOE Office of Worker Protection Policy and Programs (DOE EH-52) is responsible for ... To: The DOE Office of Health, Safety and Security's Office of Worker Safety and Health Policy (HS-11) is responsible for ...</p>
Part 1, page 11, 2 nd last para	Change "DOE/EH" to "DOE/HSS"
Part 2, page 1 - 7 Part 4, page 1 - 6	<p>Change: The above are available through the DOE EH-52 website at: http://tis.eh.doe.gov/whs/rhmwp/regs.html To: The above are available through the DOE HS-11 website at: Insert appropriate URL</p>
Part 2, pages 1 - 8 and 1 - 13 Instructor's notes	Delete the URLs and add: Insert appropriate URL
Part 2, page 1 - 13, Part 4, page 1 - 11	<p>Replace "by the Assistant Secretary for Environment, Safety and Health (EH-1)" With "by the Chief Health, Safety and Security Officer (HS-1)"</p>
Part 2, page 1 -12 Part 2, page 5 - 8 Part 4, page 1 - 10 Part 4, page 5 - 6	<p>Change: DOE Office of Enforcement and Investigation (EH-10) To: DOE Office of Enforcement (HS - 40)</p>
Part 2, page 7 - 5 Part 4, page 7 - 3	<p>Change: DOE-OSCH-0002 To: DOE-HDBK-1184-2004</p>
Part 2, page 8 - 10 Part 2, page 8 - 7	<p>Change: DOE/EH-0425, <i>Plutonium Facilities Training</i> To: <i>Radiological Safety Training for Plutonium Facilities</i>, DOE-HDBK-1145-2001 Delete last Instructor note on page</p>

**Change Notice 1. Radiological Safety Training for Accelerator Facilities
DOE-HDBK-1108-2002**

Page/Section	Change
Cover sheets parts 1 through 5	Change: Office of Environment, Safety & Health To: Office of Health, Safety and Security
Part 1, page 5, 2nd last para	Change: The DOE Office of Worker Protection Policy and Programs (EH-52) is responsible for To: The DOE Office of Health, Safety and Security's Office of Worker Safety and Health Policy (HS-11) is responsible for ...
Part 1, page 5, 2nd Bottom	Insert: Copies of this Handbook may be obtained from the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).
Part 1, page 11, Evaluating Training Program Effectiveness 1st para	Change: "Verification of the effectiveness of Radiological Control Training for Supervisors should be accomplished by..." To: "Verification of the effectiveness of Radiological Safety Training for Accelerator Facilities should be accomplished by..." Change "DOE/EH" to "DOE/HSS"

**Change Notice 2. RADIOLOGICAL CONTAMINATION CONTROL TRAINING
FOR LABORATORY RESEARCH DOE-HDBK-1106-97**

Page/Section	Change
vii	<p>Change: Copies of this Handbook may be obtained from either the DOE Radiation Safety Training Home Page Internet site (http://www.eh.doe.gov/radiation/RST/rstmater.htm) or the DOE Technical Standards Program Internet site (http://www.eh.doe.gov/techstds/). Documents downloaded from the DOE Radiation Safety Training Home Page Internet site may be manipulated using the software noted above (current revision or higher).</p> <p>To: Copies of this Handbook may be obtained from the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).</p>
Cover sheet parts 1, 2 and 3	<p>Change: Office of Environment, Safety & Health U.S. Department of Energy February 1997</p> <p>To: Office of Health Safety and Security U.S. Department of Energy January 2007</p>
Part 1, page 12 Evaluating Training Program Effectiveness	Change "EH" to "HSS"
Part 1, page 1 Organizational Relationships and Reporting Structure	<p>Change: The DOE Office of Worker Protection Policy and Programs (EH-52) is responsible for approving and maintaining the standardized core training materials associated with the core training program. An oversight group consisting of representatives from the major contractors will review comments and recommend program changes to DOE EH.</p> <p>To: The DOE Office of Worker Safety and Health Policy (HS-11) is responsible for approving and maintaining the standardized core training materials associated with the core training program. An oversight group consisting of representatives from the major contractors will review comments and recommend program changes to DOE HSS.</p>

**Change Notice 1. Radiological Safety Training for Tritium Facilities
DOE-HDBK-1105-2002**

Page/Section	Change
Cover sheets parts 1, 2, 3, and 4	Change: Office of Environment, Safety & Health To: Office of Health, Safety and Security
Part 1, page 5, 2 nd last para	Change: The DOE Office of Worker Protection Policy and Programs (EH-52) is responsible for... To: The DOE Office of Health, Safety and Security's Office of Worker Safety and Health Policy (HS-11) is responsible for ...
Part 1, page 5, bottom	Add: Copies of this Handbook may be obtained from the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).
Part 1, page 11, Evaluating Training Program Effectiveness, 1 st sentence Last sentence	Change "Verification of the effectiveness of Radiological Control Training for Supervisors should..." To "Verification of the effectiveness of Radiological Training for Tritium Facilities should..."
Part 1, page 11, Evaluating Training Program Effectiveness, 1 st sentence 3rd sentence	Change "DOE/EH" to "DOE/HS"
Part 1, page 13, 3 rd and 4 th sentences	Change "Word 2000" to "Word 2003" and Power Point 2000" to "Power Point 2003"

**Change Notice 2. RADIOLOGICAL SAFETY TRAINING FOR RADIATION-PRODUCING (X-RAY) DEVICES
DOE-HDBK-1109-97**

Page/Section	Change
iii Last para	Change: Copies of this Handbook may be obtained from either the DOE Radiation Safety Training Home Page Internet site (http://www.eh.doe.gov/radiation/RST/rstmater.htm) or the DOE Technical Standards Program Internet site (http://www.eh.doe.gov/techstds/). To: Copies of this Handbook may be obtained from the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).
Cover sheet Parts 1, 2, and 3	Change: Office of Environment, Safety & Health U.S. Department of Energy February 1997 To: Office of Health Safety and Security U.S. Department of Energy January 2007
Part 1, page 1 Organizational Relationships and Reporting Structure	Change: The DOE Office of Worker Protection Policy and Programs (EH-52) is responsible for approving and maintaining the additional standardized training materials. To: The DOE Office of Worker Safety and Health Policy (HS-11) is responsible for approving and maintaining the additional standardized training materials.
Part 1, page 19	Change reference to ANSI N43.2 to ANSI N43.2-2001 (reissued in 2001)
Part 1, page 12 Evaluating Training Program Effectiveness	Change "EH" to "HSS"
Part 2, page 3	Change reference to ANSI N43.2 {1989} to ANSI N43.2 {2001}
Part 2, page 10 Part 3, page 4	Change value of average background dose to 360 mrem per year and manmade sources to 60 mrem per year. Delete "a dental X-ray is 50 - 300 mrem,"
Part 2, page 40	Change reference to BEIR V to BEIR VII
Part 2, page 47 Part 3, page 30	Change: 0B500 mR" To: "0 - 500 mR"
Part 2, page 87 Part 3, page 55	Revise definition of Bremsstrahlung to read: "... when an electrically charged particle, ..." (Delete "subatomic")

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**Change Notice 2. RADIOLOGICAL SAFETY TRAINING FOR RADIATION-
PRODUCING (X-RAY) DEVICES
DOE-HDBK-1109-97**

Page/Section	Change
iii Last para	Change: Copies of this Handbook may be obtained from either the DOE Radiation Safety Training Home Page Internet site (http://www.eh.doe.gov/radiation/RST/rstmater.htm) or the DOE Technical Standards Program Internet site (http://www.eh.doe.gov/techstds/). To: Copies of this Handbook may be obtained from the DOE Radiation Safety Training Home Page Internet site (http://www.hss.energy.gov/radiation/RST/rstmater.htm).
Cover sheet Parts 1, 2, and 3	Change: Office of Environment, Safety & Health U.S. Department of Energy February 1997 To: Office of Health Safety and Security U.S. Department of Energy January 2007
Part 1, page 1 Organizational Relationships and Reporting Structure	Change: The DOE Office of Worker Protection Policy and Programs (EH-52) is responsible for approving and maintaining the additional standardized training materials. To: The DOE Office of Worker Safety and Health Policy (HS-11) is responsible for approving and maintaining the additional standardized training materials.
Part 1, page 19	Change reference to ANSI N43.2 to ANSI N43.2-2001 (reissued in 2001)
Part 1, page 12 Evaluating Training Program Effectiveness	Change "EH" to "HSS"
Part 2, page 3	Change reference to ANSI N43.2 {1989} to ANSI N43.2 {2001}
Part 2, page 47 Part 3, page 30	Change: 0B500 mR" To: "0 – 500 mR"