

Community College of Denver
Metropolitan State University of Denver
Regis University
Trinidad State College

Connecticut (1)

Gateway Community College

Florida (11)

Ana G. Mendez University
Broward College
Florida Atlantic University
Florida International University
Indian River State College
Miami Dade College
Nova Southeastern University
Palm Beach State College
Seminole State College of Florida
University of Central Florida
Valencia College

Georgia (2)

Dalton State College
Georgia Gwinnett College

Illinois (7)

City Colleges of Chicago—Richard J Daley College
College of Lake County
Dominican University
North Park University
Northeastern Illinois University
Roosevelt University
University of Illinois Chicago

Indiana (1)

Goshen College

Kansas (1)

Seward County Community College

Massachusetts (1)

Bunker Hill Community College

Nevada (1)

University of Nevada—Las Vegas

New Jersey (9)

Atlantic Cape Community College
Essex County College
Hudson County Community College
Kean University
Middlesex College
Montclair State University
Passaic County Community College
Rutgers University—Newark
William Paterson University of New Jersey

New Mexico (8)

Central New Mexico Community College
Eastern New Mexico University—Main Campus
Eastern New Mexico University—Roswell Campus
Northern New Mexico College
Santa Fe Community College
University of New Mexico—Los Alamos Campus
University of New Mexico—Main Campus
Western New Mexico University

New York (15)

CUNY Bronx Community College
CUNY City College
CUNY Hostos Community College
CUNY Hunter College
CUNY LaGuardia Community College

CUNY Lehman College
CUNY Queens College
CUNY Queensborough Community College
Farmingdale State College
Manhattan College
Manhattanville College
Mercy College
Nassau Community College
Suffolk County Community College
SUNY Westchester Community College

North Carolina (1)

Sampson Community College

Oregon (1)

Chemeketa Community College

Puerto Rico (16)

Instituto Tecnológico de Puerto Rico—
Recinto de Manatí
Inter American University of Puerto Rico—
Aguadilla
Inter American University of Puerto Rico—
Barranquitas
Inter American University of Puerto Rico—
Bayamon
Inter American University of Puerto Rico—
Guayama
Inter American University of Puerto Rico—
Ponce
Inter American University of Puerto Rico—
San German
Pontifical Catholic University of Puerto
Rico—Ponce
Universidad Ana G. Mendez—Carolina
Campus
Universidad Ana G. Mendez—Cupey Campus
Universidad Ana G. Mendez—Gurabo
Campus
University of Puerto Rico—Arecibo
University of Puerto Rico—Humacao
University of Puerto Rico—Medical Sciences
University of Puerto Rico—Rio Piedras
University of Puerto Rico—Utua

Texas (33)

Amarillo College
Angelo State University
Austin Community College District
Central Texas College
Dallas College
Frank Phillips College
Huston—Tillotson University
Lee College
Lone Star College System
Odessa College
Palo Alto College
Saint Edward's University
San Antonio College
Southwest Texas Junior College
Southwestern University
St. Mary's University
Sul Ross State University
Tarrant County College District
Texas A & M University—Corpus Christi
Texas A & M University—Kingsville
Texas State Technical College
Texas State University
Texas Woman's University
The University of Texas at Austin
The University of Texas at El Paso
The University of Texas at San Antonio
The University of Texas Rio Grande Valley
Tyler Junior College
University of Houston
University of Houston—Clear Lake
University of North Texas

University of the Incarnate Word
Wayland Baptist University

Washington (4)

Big Bend Community College
Heritage University
Wenatchee Valley College
Yakima Valley College

Done at Washington, DC, this day of
October 10, 2023.

Drenda Williams,

*Associate Director for Operations, National
Institute of Food and Agriculture, U.S.
Department of Agriculture.*

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**NUCLEAR REGULATORY
COMMISSION****10 CFR Parts 50 and 52**

[NRC–2021–0179]

**Regulatory Guide: Alternative
Radiological Source Terms for
Evaluating Design Basis Accidents at
Nuclear Power Reactors**

AGENCY: Nuclear Regulatory
Commission.

ACTION: Final guide; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is issuing Revision 1 to Regulatory Guide (RG), 1.183, “Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors.” This RG describes a method that the NRC staff considers acceptable in complying with regulations for design basis accident dose consequence analysis using an alternative source term. This guidance for light-water reactor (LWR) designs includes the scope, nature, and documentation of associated analyses and evaluations; consideration of impacts on analyzed risk; and content of submittals.

DATES: Revision 1 to RG 1.183 is available on October 16, 2023.

ADDRESSES: Please refer to Docket ID NRC–2021–0179 when contacting the NRC about the availability of information regarding this document. You may obtain publicly available information related to this document using any of the following methods:

- *Federal Rulemaking Website:* Go to <https://www.regulations.gov> and search for Docket ID NRC–2021–0179. Address questions about Docket IDs in *Regulations.gov* to Stacy Schumann; telephone: 301–415–0624; email: Stacy.Schumann@nrc.gov. For technical questions, contact the individuals listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

• *NRC's Agencywide Documents Access and Management System (ADAMS)*: You may obtain publicly available documents online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "Begin Web-based ADAMS Search." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, at 301-415-4737, or by email to PDR.Resource@nrc.gov. The ADAMS accession number for each document referenced (if it is available in ADAMS) is provided the first time that it is mentioned in this document.

• *NRC's PDR*: The PDR, where you may examine and order copies of publicly available documents, is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

Revision 1 to RG 1.183 and the regulatory analysis may be found in ADAMS under Accession Nos. ML23082A305 and ML21204A066, respectively.

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FOR FURTHER INFORMATION CONTACT:

Michael Eudy, Office of Nuclear Regulatory Research, telephone: 301-415-3104, email: Michael.Eudy@nrc.gov, Mark Blumberg, Office of Nuclear Reactor Regulation, telephone: 301-415-1083, email: Mark.Blumberg@nrc.gov, and Joseph Messina, Office of Nuclear Reactor Regulation, telephone: 301-415-4226, email: Joseph.Messina@nrc.gov. All are staff of the U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

SUPPLEMENTARY INFORMATION:

I. Discussion

The NRC is issuing a revision in the NRC's "Regulatory Guide" series. This series was developed to describe methods that are acceptable to the NRC staff for implementing specific parts of the agency's regulations, to explain techniques that the staff uses in evaluating specific issues or postulated events, and to describe information that the staff needs in its review of applications for permits and licenses.

The proposed Revision 1 to RG 1.183 was issued with a temporary identification of Draft Regulatory Guide, DG-1389. (ADAMS Accession No. ML21204A065).

This revision of the guide (Revision 1) addresses new issues identified since

the guide was originally issued. These include (1) using the term maximum hypothetical accident loss-of-coolant accident (LOCA) to clarify the accident that the staff finds acceptable to use to meet the description in the applicable regulations, identified in Section A of RG 1.183, Revision 1, with a clear delineation between source term assumptions and plant response; (2) adding transient release fractions from empirical data from in-pile, prompt power pulse test programs and analyses from several international publications of fuel rod performance under prompt power excursion conditions; (3) revising steady-state release fractions for accidents other than the LOCA based on a revision to the American National Standards Institute/American Nuclear Society Standard 5.4, "Method for Calculating the Fractional Release of Volatile Fission Products from Oxide Fuel"; (4) adding information to acknowledge that the RG may provide useful information for satisfying the radiological dose analysis requirements in parts 50 and 52 of title 10 of the *Code of Federal Regulations* (10 CFR), for new LWR applicants, including advanced evolutionary and passive LWR design and siting; (5) providing additional guidance for modeling boiling-water reactor main steam isolation valve leakage; (6) adding guidance for accident tolerant fuel, high-burnup fuel, and increased enrichment source term analyses; (7) revising transport and decontamination models for the fuel handling design basis accident; (8) adding guidance for crediting hold-up and retention of main steam isolation valve leakage within the main steamlines and condenser for boiling-water reactors; and (9) providing additional guidance on meteorological assumptions.

II. Additional Information

The NRC published a notice of the availability of DG-1389 in the **Federal Register** on April 21, 2022 (87 FR 23891) for a 60-day public comment period. The public comment period closed on June 21, 2022. Public comments on DG-1389 and the staff responses to the public comments are available under ADAMS under Accession No. ML23082A309.

In the notice of availability for DG-1389, Section IV, "Specific Request for Comment," the NRC sought specific comments on the draft staff technical assessment titled, "Technical Assessment of Hold-up and Retention of Main Steam Isolation Valve Leakage within the Main Steam Lines and Main Condenser" (ADAMS Accession No. ML20085J042); the NRC staff did not

receive any public comments on the draft staff technical assessment. At this time, the staff has determined to incorporate the supporting technical basis information from that draft staff technical assessment into RG 1.183, Revision 1, Appendix A, Section A-5.5, rather than finalizing the draft staff technical assessment separately for inclusion in this RG. Accordingly, the reference to the draft staff technical assessment was deleted from the final RG.

As noted in the **Federal Register** on December 9, 2022 (87 FR 75671), this document is being published in the "Rules" section of the **Federal Register** to comply with publication requirements under 1 CFR chapter I.

III. Congressional Review Act

This RG is a rule as defined in the Congressional Review Act (5 U.S.C. 801-808). However, the Office of Management and Budget has not found it to be a major rule as defined in the Congressional Review Act.

IV. Backfitting, Forward Fitting, and Issue Finality

Issuance of RG 1.183, Revision 1, does not constitute backfitting as defined in 10 CFR 50.109, "Backfitting," and as described in NRC Management Directive (MD) 8.4, "Management of Backfitting, Forward Fitting, Issue Finality, and Information Requests" (ADAMS Accession No. ML18093B087); affect the issue finality of an approval under 10 CFR part 52; or constitute forward fitting as defined and described in MD 8.4 because, as explained in RG 1.183, Revision 1, applicants and licensees are not required to comply with the positions set forth in this RG.

V. Submitting Suggestions for Improvement of Regulatory Guides

A member of the public may, at any time, submit suggestions to the NRC for improvement of existing RGs or for the development of new RGs. Suggestions can be submitted on the NRC's public website at <https://www.nrc.gov/reading-rm/doc-collections/reg-guides/contactus.html>. Suggestions will be considered in future updates and enhancements to the "Regulatory Guide" series.

Dated: October 11, 2023.

For the Nuclear Regulatory Commission.

Stephen M. Wyman,

Acting Chief, Regulatory Guide and Programs Management Branch, Division of Engineering, Office of Nuclear Regulatory Research.

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