

For the Nuclear Regulatory Commission.

**Tara Inverso,**

*Acting Deputy Director, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.*

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## NUCLEAR REGULATORY COMMISSION

[NRC-2018-0076]

### Evaluating Electromagnetic and Radio-Frequency Interference in Safety-Related Instrumentation and Control Systems

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Draft regulatory guide; request for comment.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) is issuing for public comment Draft Regulatory Guide (DG), DG-1333, "Guidelines for Evaluating Electromagnetic and Radio-Frequency Interference in Safety-Related Instrumentation and Control Systems." DG-1333 is proposed Revision 2 of Regulatory Guide (RG) 1.180, "Guidelines for Evaluating Electromagnetic and Radio-Frequency Interference in Safety-Related Instrumentation and Control Systems," dated October 2003. This DG updates the guidance on electromagnetic compatibility (EMC) practices and test methods that the staff of the NRC consider acceptable for qualifying safety-related instrumentation and control (I&C) systems for the expected electromagnetic environment in nuclear power plants.

**DATES:** Submit comments by June 25, 2018. Comments received after this date will be considered if it is practical to do so, but the NRC is able to ensure consideration only for comments received on or before this date. Although a time limit is given, comments and suggestions in connection with items for inclusion in guides currently being developed or improvements in all published guides are encouraged at any time.

**ADDRESSES:** You may submit comments by any of the following methods:

- *Federal Rulemaking website:* Go to <http://www.regulations.gov> and search for NRC-2018-0076. Address questions about NRC dockets to Jennifer Borges; telephone: 301-287-9127; email: [Jennifer.Borges@nrc.gov](mailto:Jennifer.Borges@nrc.gov). For technical questions, contact the individuals listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- *Mail comments to:* May Ma, Office of Administration, Mail Stop: TWFN-7-A60M, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. For additional direction on obtaining information and submitting comments, see "Obtaining Information and Submitting Comments" in the **SUPPLEMENTARY INFORMATION** section of this document.

**FOR FURTHER INFORMATION CONTACT:**

David Dawood, telephone: 301-415-2389, email: [David.Dawood@nrc.gov](mailto:David.Dawood@nrc.gov) and Michael Eudy, telephone: 301-415-6003, email: [Michael.Eudy@nrc.gov](mailto:Michael.Eudy@nrc.gov). Both are staff members of the Office of Nuclear Regulatory Research, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

**SUPPLEMENTARY INFORMATION:**

#### I. Obtaining Information and Submitting Comments

##### A. Obtaining Information

Please refer to Docket ID NRC-2018-0076 when contacting the NRC about the availability of information regarding this action. You may obtain publically-available information related to this action, by any of the following methods:

- *Federal Rulemaking Website:* Go to <http://www.regulations.gov> and search for DG-1333 or Docket ID NRC-2018-0076.
- *NRC's Agencywide Documents Access and Management System (ADAMS):* You may obtain publicly available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "ADAMS Public Documents" and then 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, 301-415-4737, or by email to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). This DG is electronically available in ADAMS under Accession No. ML16281A531. The regulatory analysis for this DG is available in ADAMS under Accession No. ML17188A397.

- *NRC's PDR:* You may examine and purchase copies of public documents at the NRC's PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

##### B. Submitting Comments

Please include Docket ID NRC-2018-0076 in your comment submission. The NRC cautions you not to include identifying or contact information that you do not want to be publicly disclosed in your comment submission. The NRC posts all comment submissions at [http://](http://www.regulations.gov)

[www.regulations.gov](http://www.regulations.gov) as well as enters the comment submissions into ADAMS. The NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for submission to the NRC, then you should inform those persons not to include identifying or contact information that they do not want to be publicly disclosed in their comment submission. Your request should state that the NRC does not routinely edit comment submissions to remove such information before making the comment submissions available to the public or entering the comment submissions into ADAMS.

#### II. Additional Information

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

The DG entitled "Guidelines for Evaluating Electromagnetic and Radio-Frequency Interference in Safety-Related Instrumentation and Control Systems," is proposed Revision 2 to RG 1.180. The proposed revised RG is temporarily identified by its task number, DG-1333. The proposed revised RG updates the guidance on EMC practices and test methods that the staff of the NRC consider acceptable for qualifying safety-related I&C systems for the expected electromagnetic environment in nuclear power plants. The revised RG endorses the current versions of previously endorsed military, Institute of Electrical and Electronics Engineers (IEEE), and International Electrotechnical Commission (IEC) specifications and standards; incorporates additional guidance for evaluating the effects of electrostatic discharge; and accounts for the evolution of the operational environment at nuclear power plants arising from the increased use of digital technology, including wireless communication for both personnel (personal digital assistants and smartphones) and industrial (remote I&C) applications.

Department of Defense, Federal, National Aeronautics and Space Administration, NASA, Department of Energy, and Government specifications,

standards, handbooks, and publications are available free from [www.EverySpec.com](http://www.EverySpec.com). Copies of IEEE documents may be purchased from the Institute of Electrical and Electronics Engineers Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855, or through the IEEE's public website at [http://www.ieee.org/publications\\_standards/index.html](http://www.ieee.org/publications_standards/index.html). Copies of IEC documents may be obtained through its website at <http://www.iec.ch/> or by writing the IEC Central Office at P.O. Box 131, 3 Rue de Varembe, 1211 Geneva, Switzerland, telephone +41 22 919 02 11.

### III. Backfitting and Issue Finality

This DG-1333, if finalized as Revision 2 to RG 1.180, would update the guidance on EMC practices and test methods that the staff of the NRC consider acceptable for qualifying safety-related I&C systems for the expected electromagnetic environment in nuclear power plants. The DG, if finalized, would not constitute backfitting as defined in title 10 of the *Code of Federal Regulations* (10 CFR) section 50.109 (the Backfit Rule) and is not otherwise inconsistent with the issue finality provisions in 10 CFR part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." The subject of this DG, as described above, is an NRC-defined process that does not fall within the purview of subjects covered by either the Backfit Rule or the issue finality provision in 10 CFR part 52. Issuance of the DG, in final form, would not constitute backfitting, and no further consideration of backfitting is required in order to issue the draft or final RG in final form.

Dated at Rockville, Maryland, this 18th day of April 2018.

For the Nuclear Regulatory Commission.

**Thomas H. Boyce,**

*Chief, Regulatory Guidance and Generic Issues Branch, Division of Engineering, Office of Nuclear Regulatory Research.*

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## NUCLEAR REGULATORY COMMISSION

### Advisory Committee on Reactor Safeguards Revised Notice of Meeting

In accordance with the purposes of Sections 29 and 182b of the Atomic Energy Act (42 U.S.C. 2039, 2232b), the Advisory Committee on Reactor Safeguards (ACRS) will hold meetings on May 3-4, 2018, 11545 Rockville Pike, Rockville, Maryland 20852.

### Thursday, May 3, 2018, Conference Room T-2B1, 11545 Rockville Pike, Rockville, Maryland 20852

*8:30 a.m.-8:35 a.m.: Opening Remarks by the ACRS Chairman* (Open)—The ACRS Chairman will make opening remarks regarding the conduct of the meeting.

*8:35 a.m.-10:15 p.m.: APR1400: Large Break Loss-of-Coolant Accident* (Closed)—The Committee will have briefings by and discussion with representatives of the NRC staff and Korea Hydro & Nuclear Power Co., Ltd., regarding the safety evaluation associated with the subject topical report. [Note: This session is closed in order to discuss and protect information designated as proprietary, pursuant to 5 U.S.C 552b(c)(4).]

*10:30 a.m.-12:00 p.m.: Preparation of ACRS Reports* (Open/Closed)—The Committee will continue its discussion of proposed ACRS reports. [Note: A portion of this session may be closed in order to discuss and protect information designated as proprietary, pursuant to 5 U.S.C 552b(c)(4).]

*1:00 p.m.-6:00 p.m.: Preparation of ACRS Reports* (Open/Closed)—The Committee will continue its discussion of proposed ACRS reports. [Note: A portion of this session may be closed in order to discuss and protect information designated as proprietary, pursuant to 5 U.S.C 552b(c)(4).]

### Friday, May 4, 2018, Conference Room T-2B1, 11545 Rockville Pike, Rockville, Maryland 20852

*8:30 a.m.-10:00 a.m.: Future ACRS Activities/Report of the Planning and Procedures Subcommittee and Reconciliation of ACRS Comments and Recommendations* (Open/Closed)—The Committee will hear discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the Full Committee during future ACRS meetings. [Note: A portion of this meeting may be closed pursuant to 5 U.S.C. 552b (c)(2) and (6) to discuss organizational and personnel matters that relate solely to internal personnel rules and practices of the ACRS, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.]

*10:00 a.m.-12:00 p.m.: Preparation of ACRS Reports* (Open/Closed)—The Committee will continue its discussion of proposed ACRS reports. [Note: A portion of this session may be closed in order to discuss and protect information designated as proprietary, pursuant to 5 U.S.C 552b(c)(4).]

*1:00 p.m.-6:00 p.m.: Preparation of ACRS Reports/Retreat* (Open/Closed)—

The Committee will continue its discussion of proposed ACRS reports and potential retreat items. [Note: A portion of this session may be closed in order to discuss and protect information designated as proprietary, pursuant to 5 U.S.C 552b(c)(4).] [Note: A portion of this meeting may be closed pursuant to 5 U.S.C. 552b (c)(2) and (6) to discuss organizational and personnel matters that relate solely to internal personnel rules and practices of the ACRS, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.]

Procedures for the conduct of and participation in ACRS meetings were published in the **Federal Register** on October 4, 2017 (82 FR 46312). In accordance with those procedures, oral or written views may be presented by members of the public, including representatives of the nuclear industry. Persons desiring to make oral statements should notify Quynh Nguyen, Cognizant ACRS Staff (Telephone: 301-415-5844, Email: [Quynh.Nguyen@nrc.gov](mailto:Quynh.Nguyen@nrc.gov)), 5 days before the meeting, if possible, so that appropriate arrangements can be made to allow necessary time during the meeting for such statements. In view of the possibility that the schedule for ACRS meetings may be adjusted by the Chairman as necessary to facilitate the conduct of the meeting, persons planning to attend should check with the Cognizant ACRS staff if such rescheduling would result in major inconvenience.

Thirty-five hard copies of each presentation or handout should be provided 30 minutes before the meeting. In addition, one electronic copy of each presentation should be emailed to the Cognizant ACRS Staff one day before meeting. If an electronic copy cannot be provided within this timeframe, presenters should provide the Cognizant ACRS Staff with a CD containing each presentation at least 30 minutes before the meeting.

In accordance with Subsection 10(d) of Public Law 92-463 and 5 U.S.C. 552b(c), certain portions of this meeting may be closed, as specifically noted above. Use of still, motion picture, and television cameras during the meeting may be limited to selected portions of the meeting as determined by the Chairman. Electronic recordings will be permitted only during the open portions of the meeting.

ACRS meeting agendas, meeting transcripts, and letter reports are available through the NRC Public Document Room at [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov), or by calling the PDR at 1-800-397-4209, or from the Publicly Available Records System (PARS)