









Update on the Interagency Committee on Seismic Safety in Construction (ICSSC)

ICSSC Virtual Meeting—Spring 2023

May 16, 2023

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ICSSC Meeting Objective

- Continue the process of reinvigorating and possibly restructuring the ICSSC
 - last meeting was November 8, 2022
- Create a forum to facilitate agency representatives to ask questions, create dialogue, or provide feedback on:
 - Recommended practices and guidance for federal agencies
 - EO 13717 data calls and compliance summary reports
 - What do we do, what do we need, and where do we go?







EO 13717 Compliance

EO 13717 Data Call Template

EO Reporting Period	Covered Dates	New Buildings			Existing Buildings		
		Code/Standard	Earliest Adoption Date	Adoption Deadline	Code/Standard	Earliest Adoption Date	Adoption Deadline
1	Feb. 2, 2016 – Feb. 1, 2018	2015 IBC/IRC	before reporting period	May 2, 2016	RP 8	before reporting period	May 2, 2016
		2018 IBC/IRC	Aug. 31, 2017	next reporting period			
2	Feb. 2, 2018 – Feb. 1, 2020	2015 IBC/IRC	before reporting period	Terminated Aug. 31, 2019	RP 8	before reporting period	before reporting period
		2018 IBC/IRC	before reporting period	Aug. 31, 2019			
3	Feb. 2, 2020 – Feb. 1, 2022	2018 IBC/IRC	before reporting period	before reporting period	RP 8	before reporting period	before reporting period
		2021 IBC 2021 IRC	Oct. 23, 2020 Jan. 29, 2021	next reporting period			
4	Feb. 2, 2022 – Feb. 1, 2024	2018 IBC 2018 IRC	before reporting period	Terminates Oct. 23, 2022 Jan. 29, 2023	RP 8	before reporting period	before reporting period
		2021 IBC 2021 IRC	before reporting period	Oct. 23, 2022 Jan. 29, 2023	RP 10-22	January 2023	next reporting period
		2024 IBC 2024 IRC	Late 2023/early 2024	next reporting period			



FEMA has the <u>Nationwide Building Code Adoption Tracking</u> (BCAT) program that can be used to verify the latest IBC/IRC adopted in a jurisdiction. A component of this program is an <u>adoption map</u>.

EO Summary Report

EO 13717 Biennial Compliance Summary Report

- NIST has completed the compliance summary report for the <u>first</u> biennial reporting period covering Feb. 2, 2016 to Feb. 1, 2018, NIST TN 2136-1.
 - report is referenced in the FY18-19 NEHRP Biennial Report to the Congress (appendix dedicated to ICSSC efforts)
 - https://www.nist.gov/publications/icssc-biennial-progress-report-2018report-progress-towards-implementation-executive
- NIST "completed" the compliance summary report for the <u>second</u> and <u>third</u> biennial reporting periods covering Feb. 2, 2018 to Feb. 1, 2020 and Feb. 2, 2020 to Feb. 1, 2022.
 - In NIST review/clearance (still time)
 - will be NIST TN 2136-2 and NIST TN 2136-3
 - reports referenced in FY20-21 and FY 22-23 NEHRP Biennial Reports--will not be submitted to OMB.
 - publish together in late summer 2023

NIST Technical Note 2136-1

ICSSC Biennial Compliance Report for 2018



Report on Progress Towards Implementation of Executive Order 13717: Establishing a Federal Earthquake Risk Management Standard

Reporting Period: February 2, 2016 to February 1, 2018

> Katherine J. Johnson John L. Harris III Steven L. McCabe

This publication is available free of charge from https://doi.org/10.6028/NIST.TN.2136-1





EO 13717 Data Call Template

- Update data request template for the fourth biennial reporting period covering Feb. 2, 2022 to Feb. 1, 2024
 - data call template intended to standardize the data provided by agencies reporting their progress in implementing EO 13717, and to be a data management tool to support an agency's evolving seismic risk management program.
 - simplified to focus only on agency policies
 - requires SSC to be familiar with applicable agency policies, possible outside of real property / facility management / engineering group.
 - will be identical to 2022, and issued in February 2024.

Executive Order 13717 Compliance Data Request Template Reporting Period: February 2, 2018 to February 1, 2020

Executive Order (EO) 13717: Establishing a Federal Earthquake Risk Management Standard 1 was signe on February 2, 2016. The EO establishes a minimum level of seismic safety compliance for new and existing buildings that will be constructed, altered, leased, financed, or regulated by the Federal Government. The primary purpose of this standard is to enhance the seismic resilience of agencies by reducing risk to lives of building occupants and improving the probability of continued performance of buildings essential to agency operations and functions following future earthquakes

The EO requires that agencies whose activities are covered by the order submit a biennial report to the Director of the Office of Management and Budget (OMB) and the Director of the National Institute of Standards and Technology (NIST) on their progress in implementing the order, commencing two years from the date of the order, NIST, as the lead agency of the National Earthquake Hazards Reduction Program (NEHRP) and Chair of the Interagency Committee or Seismic Safety in Construction (ICSSC)2, is required by the EO to summarize agency compliance of the order in the biennial NEHRP report to Congress.

In 2017, NIST published ICSSC Recommended Practice (RP) 9: Implementation Guidelines for Executive Onler 13717 5 to provide broad guidance to the agencies on implementing EO 13717, offering information for common use by all agencies, so that each agency can establish its EO implementation policies and procedures that are consistent with both the HO and statutory agency-specific requirements. RP 9 also provided guidance on how an agency can report their progress in ementing the order to OMB and NIST. This guidance was used for the first biennial reporting period, February 2, 2016 to February 1, 2018.

NIST updated the reporting guidance and developed this data request template, which supersedes the reporting guidance provided in RP 9. The following aspects pertain to this data request and template:

This data request covers the reporting period from February 2, 2018 through February 1, 2020.

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EO 13717 Data Call Template

Submission to NIST and OMB

Agencies whose activities are covered by this order shall submit biennial reports to the Director of the Office of Management and Budget (OMB) and the Director of NIST on their progress in implementing the order, commencing two years from the date of this order.

- For NIST, submit template as instructed in template (ICSSC@nist.gov). We will submit draft compliance summary report to the NIST Director for final approval.
- For OMB, submit template with agency cover letter to agency examiner via agency legislative affairs office.
 - NIST has been <u>talking</u> with OMB about setting up a submission site on OMB Max. When this is operational, only one submittal is needed for both NIST and OMB. This will be a goal for FY23.



EO 13717 Data Call Template

Code of Federal Regulations

The EO rescinds EO 12941: Seismic Safety of Existing Federally Owned or Leased Buildings and EO 12699: Seismic Safety of Federal and Federally Assisted or Regulated New Building Construction. The applicable provisions in the Code of Federal Regulations should be reviewed and updated.

Example 1: Title 41 Subtitle C Chapter 128 Part 128-1 Subpart 128-1.80 §128-1.8000

§ 128-1.8000 Scope. This subpart establishes a Seismic Safety Program for the Department of Justice and sets forth the policies and procedures for obtaining compliance with Executive Order 12699, Seismic Safety of Federal and Federally Assisted or Regulated New Building Construction.

Example 2: Title 49 Subtitle A Part 41 §41.120

This section describes the standards that must be used to meet the seismic design and construction requirements of this part.

The following are model codes which have been found to provide a level of seismic safety substantially equivalent to that provided by use of the 1988 National Earthquake Hazards Reduction Program (NEHRP) Recommended Provisions.



EO 13717 Data Call Template

The official version of the C.F.R. is only updated once each year, updating your C.F.R. research to ensure you have current information is essential.

PART 16 of CFR: AGENCY REPRESENTATIVES

§ 16.1 Designation.

- (a) Each agency shall designate, from its officers or employees, persons to serve in the following capacities with relation to the Office of the Federal Register:
- 1) A liaison officer and an alternate.
- 2) A certifying officer and an alternate.
- 3) An authorizing officer and an alternate.
- (b) In choosing its liaison officer, each agency should consider that this officer will be the main contact between that agency and the Office of the Federal Register and that the liaison officer will be charged with the duties set forth in §16.2.

§ 16.2 Liaison duties.

Each agency liaison officer shall -

- (a) Represent the agency in all matters relating to the submission of documents to the Office of the Federal Register, and respecting general compliance with this chapter;
- (b) Be responsible for the effective distribution and use within the agency of Federal Register information on document drafting and publication assistance authorized by §15.10 of this chapter;

See Document Drafting Handbook (Rev. 1.4, Jan. 7, 2022) – Office of the Federal Register



ICSSC FEEDBACK ON EO 13717 REPORT OR DATA TEMPLATE

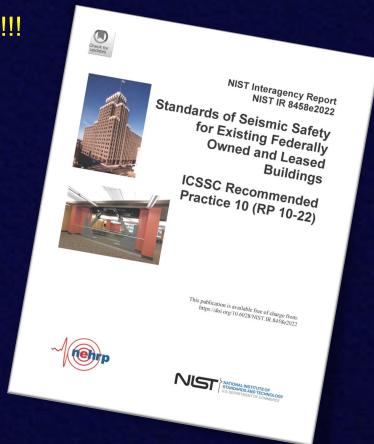
Notes:

- Keep simple about policy only
- Create ICSSC website to house templates, etc.
- OMB Max site to be fillable instead of a document upload site? Hybrid that allows upload as well?

ICSSC Update to RP 8

Standards of Seismic Safety for Existing Federally Owned and Leased Buildings, ICSSC Recommended Practice 10 (RP 10-22)

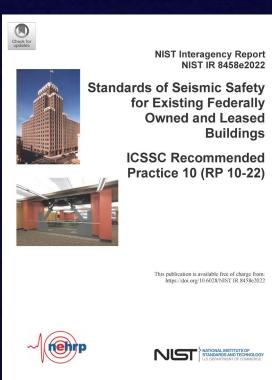
ICSSC RP 10-22 published Jan. 2023!!!



ICSSC Update to RP 10-22

Standards of Seismic Safety for Existing Federally
Owned and Leased Buildings, ICSSC Recommended
Practice 10 (RP 10-22)

- Next steps for RP 10-22
 - Evaluate incremental changes more regularly then every six years (Supplemental 1 (minor update) at 2026)?
 - Agency-specific changes to be universally adopted?
 - New provisions, codes, standards? IBC 2024, ASCE 41-23
 - Updates needed for triggers, screening, commentary ...
 - ICSSC website created on www.NEHRP.gov to be a central location for information/proposals for change to support agency adoption, implementation, and interpretation
 - Implement a committee structure for updating the next version
 - Next major update planned for 2028 (RP 10-28)
 - IBC/IRC 2027, ASCE 7-28, ASCE 41-29, etc.





ICSSC Update to RP 10

ICSSC FEEDBACK ON RP 10 FUTURE

Notes:

- Committee structure? Outside consultants (maybe different logistics for supplement (say 3 years) than the 6-year major editions)
- Public review should be maintained?
- Appendix to IEBC? Two edge sword.
 - Needs to maintain flexibility in RP 10, can't get that in IEBC
 - Adopt IEBC and provide amendments to the IEBC.
- Open section on website to house RP 10 to accept comments, proposal for changes, organic process (private Google doc for comment only)
- Flexibility for leased buildings (say 10 years) for evaluation (reduced hazard from 1% in 50 year collapse)? GSA leasing requirements (desk guide)
- Historic buildings use a separate ICSSC guide? Must work with NPS, how in depth does IEBC go with HBs?
- GSA support of RP 10 update committee, include outside source and code development world
- FRPC involvement
- Time frame to start update committee
- List reference code/standards/guidelines in ICSSC website



Future Efforts of the ICSSC

NEHRP Strategic Plan, FY22-29 (April 2023)

Program Identified Focus Area

- 8. Enhance risk reduction strategies for federal agencies
 - To support Executive Order (EO) 13717, there is a need to:
 - advance efforts by the ICSSC to implement state-of-the-art guidance that promotes risk reduction measures for federal agencies
 - restructure the ICSSC to support agencies implementing risk reduction policies and strategies
 - Outcomes will allow NEHRP, which oversees the ICSSC, to support federal efforts in risk reduction, allowing the federal agencies to lead by example



Strategic Plan

for the

National Earthquake Hazards Reduction Program

Fiscal Years 2022-2029

April 2023











EO 13717 (Feb. 2, 2016)

Establishes a minimum level of seismic safety compliance for new and existing buildings that will be constructed, altered, leased, financed, or regulated by the Federal Government by adopting the latest model building codes and standards.

New Buildings

International Building Code (IBC)
International Residential Code (IRC)

Existing Buildings

Standards of Seismic Safety for Existing Federally Owned and Leased Buildings (latest edition is ICSSC RP 10-22)



Administration of Barack Obama, 2016

Executive Order 13717—Establishing a Federal Earthquake Risk Management Standard February 2, 2016

By the authority vested in me as President by the Constitution and the laws of the United States of America, including the Earthquake Hazards Reduction Act of 1977, as amended, and section 121(a) of title 40, United States Code, and to improve the Nation's resilience to earthquakes. I hereby direct the following:

Section 1. Policy. It is the policy of the United States to strengthen the security and resilience of the Mation against earlybanks, to promote public safety, economic strength, and national security. To that end, the Federal Government must continue to take proactive steps to enhance the resilience of buildings that are owned, lessed, financed, or regulated by the Federal Government. When making investment decisions related to Federal buildings, each executive department and agency (eagney) responsible for implementing this order shall seek to enhance resilience by reducing risk to the lives of building occupants and improving continued performance of essential functions following thurse earlybacks. The Federal Government recognizes that building codes and standards primarily focus on ensuring countries. To achieve ther sellience against earlybanks, Jonews, new and existing building may need to exceed those codes and standards to ensure, for example, that the buildings can continue to perform their essential functions following future earlybacks. Agencies are thus encouraged to consider going beyond the codes and standards set out in this order to ensure that buildings are fully earlyback resilient.

Sec. 2. Requirements for Earthquake Safety of New Federal Buildings, Improvements to Existing Federal Buildings, and Federally Leased, Financed, or Regulated Buildings.

(a) New Buildings and Alterations to Existing Buildings. Each agency responsible for the descent and construction of a new building or an alteration to an existing building shall ensure that the building is designed, constructed, or altered, respectively, in accord with appropriate earthquake-resistant design and construction codes and standards as set forth in sections 3(a) and 3(b) of this order.

(b) Space Leaved for Federal Occupancy. Each agency responsible for the lease of a building shall, to the earth permitted by law, ensure that it leases only buildings that have been designed and constructed in accord with the appropriate earthquisk-resistant design and construction standards that apply to the type of lease at issue, as set forth in section 3(c) of this order.

(c) Federal Assistance Programs. Each agency assisting in the financing, through Federal grants or loans, or guaranteeing the flannesing, through loan or mortgage insurance programs, of a newly constructed building shall consider updating its procedures for providing the assistance to be consistent with section 3(a) of this order, to assure appropriate consideration of enthquake select.

(d) Federally Regulated Buildings. Each agency with responsibility for regulating the structural safety of a new building shall consider using earthquake-resistant design and construction standards for the new building consistent with section 3(a) of this order.

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EO 13717 (Feb. 2, 2016)

When making investment decisions related to federal buildings, each agency responsible for implementing this order shall seek to enhance resilience by reducing risk to the lives of building occupants and improving continued performance of essential functions following future earthquakes.

To achieve true resilience against earthquakes, however, new and existing buildings may need to exceed those codes and standards to ensure, for example, that the buildings can continue to perform their essential functions following future earthquakes.

Agencies are thus encouraged to consider going beyond the codes and standards set out in this order to ensure that buildings are fully earthquake resilient.



Administration of Barack Obama, 2016

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By the authority vested in me as President by the Constitution and the laws of the United States of America, including the Earthquake Hazards Reduction Act of 1977, as amended, and section $121(\alpha)$ of title 40, United States Code, and to improve the Nation's resilience to earthquakes, I hereby direct the following:

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(b) Space Leased for Federal Occupancy. Each agency responsible for the lease of a building shall, to the extent permitted by law, ensure that it leases only buildings that have been designed and constructed in accord with the appropriate earthquise-resistant design and construction standards that apply to the type of lease at issue, as set forth in section 3(c) of this order.

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What does it mean to go beyond code?

To achieve true resilience against earthquakes, however, new and existing buildings may need to exceed those codes and standards to ensure, for example, that the buildings can continue to perform their essential functions following future earthquakes.

On May 9th, the Building Seismic Safety Council (BSSC) and Multi-hazard Mitigation Council (MMC) within the National Institute of Building Sciences (NIBS) jointly hosted a one-day workshop on "resilience" needs for federal agencies; broken into two focuses:

- assessing and mitigating risks posed to an agency by their existing building portfolio
- 2. addressing "functional recovery" needs of agencies in design of new buildings (or retrofit of existing buildings)

Workshop report will be forthcoming.



Building Seismic Safety Council (BSSC) and Multi-Hazard Mitigation Council (MMC)

Resilience Workshop with Federal Agencies and Partners

May 9*, Tuesday, 2023, 8:30 am to 3:30 pm EDT
NIBS headquarter, 1090 Vermont Avenue, NW, Suite 700, Washington, DC
In-person and by Invitation
Contact: Bigiu (JQ) Yuan, Yuan/Zinibs.org

The recent Public Law 117-221: Dissater Resiliency Planning Act requires OMB to establish guidance requiring the head of each agency to incorporate natural dissater resilience into real property asset management and investment decisions made by the agency, It is unclear currently what form this guidance may take. Additionally, Executive Overlet (20) 1371: Establishing a Federal Earthquake Risk Management Stundard, has taken proactive steps to enhance agency resilience to earthquakes by requiring buildings that cover owned, leased, financed, or regulated by the Federal Covernment to designed, constructed, or altered in accord with appropriate earthquake-resistant design and construction codes and standards. The EO also encourages agencies to consider constructing or refortfuling facts buildings for enhanced seeining performance to help achieve higher resiliency by increasing the likelihood of continued functionality of buildings essential to agency operations following future earthquakes.

The National Institute of Building Sciences (NIBS) is organizing a workshop centered on federal agencies; needs in the areas of seismic evaluation and retrofit of existing federal buildings and finactional recovery of existing and new buildings to improve agency earthquake restlience. We are inviting colleagues from the Congress, White House CFO, DOA, DOD (DSACE, USAF, USN), DOE, DOI, DOJ, DOS, DOT, EPA, FEMA, GSA, HUD, NIST, NFS, NRC, ODNI, and VA to discuss:

- What ongoing resilience efforts agencies have undertaken and how to leverage any potential synergies;
 What topics have been identified by these agencies but have not been started or made significant progress; and
- What short-term and long-term resilience-focused policy and practice research needs still need to be addressed.

The following two white papers on "Understanding Functional Recovery Policies and Practices for Federal Buildings" and "Addressing the Challenges of Maintaining and Retrofitting Existing Federal Buildings" are prepared by the Workshop Planning Committee to provide some background information.

The Workshop Planning Committee

Kent Yu, BSSC Board Chair-SEFT Crosselting Group Boberta Lon, IBSC Board Member-Virgina Toch JoAnn Hrowsing, IBSSC Board Weise Chair UT at San Antonio William Earl, ISSSC Board Member/GSA Chales Carter, BSSC Board Member/GSA Chales Carter, BSSC Board Member/GSA Chair Stag, Mrd Board Member/GSB Alicy Yaio, Mrd Board Amber/ASIRAE Jay Hartis, BIST Ryan Karting, Bushler Engineering Ryan Karting, Bushler Engineering Robert Fedenicky, Degendsol Engineers Robert Fedenicky, Degendsol Engineers Roard Redwood, NIDS

JQ Yuan, BSSC & MMC Executive Director, NIBS

1090 Vermont Ave. NW, Suite 700, Washington, DC 20005

CALL: 202-289-7800 VISIT: www.nibs.org_EMAIL: jvuan@nibs.org





2018 NEHRP Reauthorization Act (Dec. 11, 2018)

FEMA and NIST mandated to develop a framework to assess and recommend options for improving the built environment and critical infrastructure to reflect performance goals stated in terms of post-earthquake reoccupancy and functional recovery time.

Removed from originally proposed text--

- (b) Standards for New and Existing Buildings Owned or Leased by Federal Agencies.—
- (1) DEVELOPMENT OF GUIDELINE.—the Interagency Committee on Seismic Safety in Construction (ICSSC) shall develop a guideline recommending post-earthquake reoccupancy and functional recovery times for each of its new and existing buildings, services, and agencies.
- (2) REQUIREMENT.—In developing the guideline, the ICSSC shall ensure that the guideline can be used in the development of the next edition of the Standards of Seismic Safety for Existing Federally Owned and Leased Buildings.



Recommended Options for Improving the Built Environment for Post-Earthquake Reoccupancy and Functional Recovery Time

FEMA P-2090/ NIST SP-1254 / January 2021











Public Law 117-221 (Dec. 5, 2022)

The Director of OMB shall establish guidance requiring the head of each agency to incorporate natural disaster resilience into real property asset management and investment decisions made by the agency.

The guidance required under shall direct each head of an agency to incorporate assessments of natural disaster risk information conducted by the agency, such as from vulnerability and other risk assessments, into real property asset management investment decisions made by the agency.

OMB was allocated 180 days to establish this guidance!



PUBLIC LAW 117-221-DEC. 5, 2022

136 STAT. 2277

Public Law 117-221 117th Congress

An Act

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, SECTION 1. SHORT TITLE.

This Act may be cited as the "Disaster Resiliency Planning Act".

In this Act:
(1) APPROPRIATE CONGRESSIONAL COMMITTEES.—The term

(1) APPROPRIATE CONGRESSIONAL COMMITTEES.—The term expropriate compressional committees" mean—mental Affairs of the Senate; and the security and Governmental Affairs of the Senate; and the Senate; and the security of the House of Representatives.

(3) DIRECTOR.—The term "Director" means the Director of the Senate; and the Senate Senate; and the Senate Senate; and the Senate Senate

SEC. 3. GUIDANCE.

SEC. 3 CUIDNACE.

(a) IN GENERAL—Not later than 180 days after the date of Dosdine-enactment of this Act, the Director shall establish guidance requiring the head of such agency to incorporate natural disaster requiring the head of such agency to incorporate natural disaster (as the contract of the co

aster resilience.
(d) CONSULTATION.—In developing the guidance required under subsection (a), the Director may consult with appropriate entities,

including—
(1) the Comptroller General of the United States;





ICSSC FEEDBACK ON NEEDS AND FUTURE EFFORTS OF THE ICSSC

Notes:

- Standards permitted before being official adoption of building code by a jurisdiction?
- Road map of seismic standards?
- Equivalent of RP 10 associated to new buildings?
- Functional Recovery guidance?
- Resilience-based Design guidance?
- Involvement with Federal Real Property Council (FRPC)
- Quantify resilience score, what does the number means? Relation between performance standard and resilience.
- What is resiliency? COO Plan, Redundancy Plan, Recovery Plan
- !!! ICSSC above-code white (position) paper for federal agencies related to seismic safety? Learn from one another



Future Work Efforts

- Provide guidance to agencies when a new code is released with recommendations regarding adoption by an agency.
 - ICSSC Code Assessment Report for EO Compliance
 - The 2018 editions of the IBC and IRC were published on August 1, 2017;
 therefore, agencies had until August 1, 2019 to adopt these codes.
 - The 2021 editions of the IBC and IRC were published on October 23, 2020 and January 29, 2021, respectively. Agencies have two years from these dates to adopt these codes.
 - The 2024 editions of the IBC and IRC will be published in late 2023 / early 2024.
- Provide supplements to any "in-service" RP document as updated information becomes available from codes and standards development cycle.
- Discuss new ideas for guidance documents based on agency feedback of needs.



Future Work Efforts

- Participate during the development of codes and standards.
 - International Code Council (ICC)
 - FEMA
 - NIST
 - Building Seismic Safety Council (BSSC)
 - ICSSC organizational member (NIST)
 - NIST, FEMA, USGS NEHRP "Provisions Update Committee" PUC
- Hold biannual meetings (e.g., spring and fall).
 - Next meeting around early-to-mid November 2023
 - Information posted on NEHRP.gov





Questions

Thank you!

Survey – interest for in-person (with virtual option)

Please see chat feature for link to sign into meeting https://docs.google.com/forms/d/e/1FAIpQLSfHNWDHmKgAS3iYcM OdGcMDNC43KJ-y6ukd7mouPlm0q9Rhtg/viewform?usp=sharing

You can also email ICSSC@nist.gov with your attendance information

