



Memorandum

DATE: June 12, 2024

TO: The Commission
Alberta E. Mills, Secretary

THROUGH: Jessica L. Rich, General Counsel
Austin C. Schlick, Executive Director

FROM: Jacqueline H. Campbell,
Voluntary Standards Coordinator
Office of Hazard Identification and Reduction

SUBJECT: Voluntary Standards Tracking and Access Fiscal Year 2024 Midyear Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Fiscal Year 2024 (FY 2024) Midyear Voluntary Standards Tracking and Access Report (VSTAR), covering the period October 1, 2023 through March 30, 2024. If you have any questions, please contact Jacqueline Campbell at: jcampbell@cpsc.gov or VoluntaryStandards@cpsc.gov.



United States
Consumer Product Safety Commission

Memorandum



United States
Consumer Product Safety Commission

Voluntary Standards Tracking and Access Report

FY 2024 MIDYEAR REPORT

October 1, 2023–March 31, 2024

This report was prepared by the CPSC staff and has not been reviewed or approved by, and may not represent the views of, the Commission.

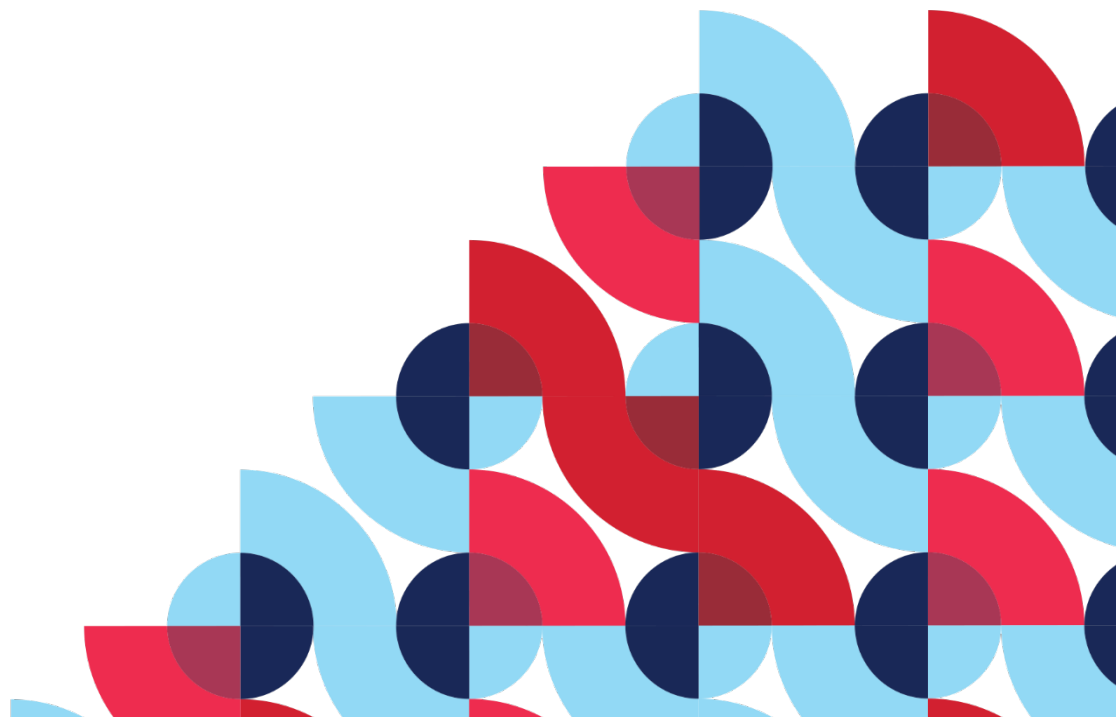


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CPSC Voluntary Standards Activities: October 1, 2023–March 31, 2024

Introduction

Voluntary standards play an important role at the CPSC. Under some statutes CPSC administers, if a relevant voluntary standard addresses the risk of injury that a consumer product presents, the Commission can issue a mandatory standard only if the voluntary standard is not likely to adequately reduce or eliminate the risk of injury, or there is not likely to be substantial compliance with the voluntary standard. Additionally, some provisions of the Consumer Product Safety Improvement Act of 2008 (CPSIA) include sections building upon voluntary standards. For example, section 104 of the CPSIA, 15 U.S.C. § 2056a, requires the Commission to promulgate mandatory consumer product safety standards for durable infant or toddler products. These mandatory standards are to be “substantially the same as” applicable voluntary standards or more stringent than these voluntary standards, if the Commission determines that more stringent requirements will further reduce the risk of injury associated with the product.

VSTAR Content and Organization

The Voluntary Standards Tracking and Access Report (VSTAR) is issued biannually as: (1) a Midyear Report, covering October 1 through March 31, and (2) an Annual Report of the CPSC fiscal year, which covers October 1 to September 30. This document is the Fiscal Year 2024 (FY 2024) Midyear Report.

Voluntary standards activities are handled by various standards developing organizations (SDOs), most of them accredited by the American National Standards Institute (ANSI).¹ While most of the voluntary standards discussed in this report are developed by ASTM, International (ASTM) and UL Standards and Engagement (ULSE),² staff works with a number of other SDOs that support consumer product safety activities. This report contains a listing of all the SDOs staff works with on voluntary standards and includes their abbreviated designation(s) in the Appendix at the end of this report.

The VSTAR includes a table listing the voluntary standards to which staff contributed that were published or revised during the reporting period. Additionally, this report identifies staff who were approved to vote on a voluntary standard or hold a leadership position on a standards body during the reporting period.

¹International Organization for Standardization (ISO), International Electrotechnical Commission (IEC), American Pyrotechnics Association (APA), and The American Fireworks Standards Laboratory (AFSL) are not accredited by ANSI.

²ULSE (formerly Underwriters Laboratories Inc.), an ANSI accredited SDO, is distinct from UL Solutions, which is a product testing and certification laboratory that was formerly part of UL, and UL Research Institutes, which is an independent safety science organization looking at public safety issues.

The VSTAR contains a section for each product, product area, or hazard associated with CPSC staff's voluntary standards work that is listed in the FY 2024 CPSC Operating Plan (Op Plan). The FY 2024 Op Plan lists 88 different products, product areas, or hazards for which staff planned to be actively involved in developing voluntary standards during the fiscal year. The voluntary standards covered in this report address potential hazards associated with consumer products found in homes, schools, and recreation areas. More than 40 different staff serve as designated representatives (DRs) for the 88 categories outlined in this report.

The products, product areas, or hazards are organized with the following grouping:

- Children's Products and Hazards
 - Durable Infant and Juvenile Products
 - Other Children's Products and Hazards
- Emerging Technology
- Home Products and Hazards
- Recreation
- Codes, Analytical Methods, and Labeling

Each VSTAR entry includes the following information:

Purpose:	The purpose of staff's involvement with the voluntary standard(s).
Staff Contact:	The name of staff leading the activity (<i>i.e.</i> , the DR).
Voluntary Standard(s):	The designation(s) and name(s) of existing voluntary standards, potential new voluntary standards, and ISO standards associated with the product, with which staff is, was, or may be actively involved. The designation and titles for new or updated voluntary standards are in bold font . Titles for current voluntary standards are in <i>italics</i> , and titles of draft or potential standards are in plain font (not bold and non-italicized).
Standard(s) Update:	Any updates to the voluntary standards or potential new voluntary standards with staff's participation.
Relevant Rule:	Any associated CPSC mandatory standard(s), proposed regulation(s), and relevant petitions, regardless of status. This subsection also includes updates to any of the mandatory standard(s), proposed regulations, or petitions noted in the subsection above.
Activities:	A high-level description of the activity associated with the voluntary standards that occurred during the reporting period. Staff and Commission activities are highlighted in this subsection. There are sections summarizing staff-attended

meetings, documented standards-related staff communications, and relevant ballot activity. It is noted when staff did not attend any meetings, did not send any documented communication, or there were no ballots.

Next Action:

Staff’s anticipated actions on the voluntary standards and associated mandatory standards. This subsection also includes any recommendations associated with the voluntary standard.

VSTAR entries provide a high-level description of staff activity for the reporting period. For further information on meeting activity, staff meeting logs may be found at [Newsroom - FOIA | CPSC.gov](#). Staff correspondence may be found on the CPSC Voluntary Standards website at <https://www.cpsc.gov/Regulations-Laws--Standards/Voluntary-Standards>.

Updated Standards

Table 1 lists the 10 new or revised voluntary standards that staff actively engaged in revising or developing, and that improved safety, and were published during the reporting period. These are in fulfillment of Budget Key Metric 2024KM1.2.1. Details regarding the revisions can be found in the applicable product sections of this report. The designations and titles of voluntary standards that were new, revised, or reapproved during the reporting period are shown in bold font in the applicable activity section.

Table 1: New, Renewed, or Revised Voluntary Standards Published

October 1, 2023 - March 31, 2024

Standard	SDO	Date Published	DR	New, Revision, Renewal
ASTM D5438-23 Standard Practice for Collection of Floor Dust for Chemical Analysis	ASTM	October 2023	C. Bevington	Revision
NFPA 58 Liquefied Petroleum Gas Code	NFPA	October 2023	Y. Kim	Revision
ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	ASTM	October 2023	B. Mordecai	Revision
ANSI/PGMA G300-2023 Safety And Performance of Portable Generators	PGMA	December 2023	J. Buyer	Revision
ASTM F3429/F3429M-24 Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers	ASTM	January 2024	S. Ayers	Revision

UL 2900-1 - 2nd Ed (2023) Software Cybersecurity for Network-Connectable Products Part 1 General Requirements	UL	December 2023	S. Lee	Revision
ASTM F3084-23 Standard Consumer Safety Specification for Infant and Infant/Toddler Rockers	ASTM	January 2024	Z. Foster	Revision
CSA/ANSI Z21.1-24 / CSA 1.1-2024	CSA	February 2024	S. Ayers	Revision
ASTM F2088-24 Standard Consumer Safety Specification for Infant and Cradle Swings	ASTM	February 2024	C. Torres	Revision
ASTM F3186-24 Standard Specification for Adult Portable Bed Rails and Related Products	ASTM	March 2024	V. Dayal	Revision

Voting and Leadership Roles

In accordance with 16 CFR part 1031, *Commission Participation and Commission Employee Involvement in Voluntary Standards Activities*, the VSTAR report includes information about staff voting and leadership activities. These activities are approved annually by the Office of the Executive Director (OEX). Listed below are the active leadership and voting approvals during the reporting period:

Staff Name	Date of Approval	New Approval or Renewal	Role	Standards Body and Standard
Lee, A.	April 2023*	New	Leadership	Portable Electric Heaters WG Chair (Includes UL 1278 and UL 1042)
Goldstein, Z.	April 2023*	New	Leadership/Voting	ASTM F1967 Infant Bath Seats Task Group Chair
Buyer, J.	April 2023*	New	Voting	PGMA G300 Canvass Committee
Phillips, K.	May 2023*	New	Voting	ASTM F15.19 Wearable Infant Blankets
Ayers, S.	April 2023*	Renewal	Voting	ASTM F2517 Child Resistance of Portable Fuel Containers
Ayers, S.	April 2023*	Renewal	Voting	ASTM F852 Specification for Portable Gasoline, Kerosene, and Diesel Containers
Ayers, S.	April 2023*	Renewal	Voting	ASTM F3326 Flame Mitigation Devices on Portable Fuel Containers
Ayers, S.	April 2023*	Renewal	Leadership/Voting	ASTM F3429 Flame Mitigation Devices Installed in Disposable

				and Pre-Filled Flammable Liquid Containers
Ayers, S.	April 2023*	Renewal	Voting	ASTM F2874 One Time Use Portable Emergency Fuel Containers (PEFC)
Ayers, S.	April 2023*	New	Voting	ASTM F839 Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers
Smith, T.	June 2023*	Renewal	Voting	ANSI Z535 Safety Colors and Signs
Lee, A.	October 2023	Renewal	Leadership	Electric Fans, UL 507
Kish, C.	October 2023	Renewal	Voting	ASTM F15.18 Bassinets
Harsanyi, S.	October 2023	Renewal	Voting	ASTM F3458 Magnets
DeGrano, F.	January 2024	New	Voting	Play Yards and Non-full- size Cribs, ASTM F406
Kerns, J.	February 2024	New	Voting	ASTM F1967, Infant Bath Seats
Bathalon, S.	February 2024	New	Voting	ASTM WK76767, Computer Drowning Detection
Maling, E.	February 2024	New	Voting	ASTM F08.22, New Tent Flammability Standard
Phillips, K.	March 2024	Renewal	Voting	ASTM F15.19, New Wearable Infant Blanket Standard
Ayers, S.	March 2024	New	Voting	International Fuel Gas Code

*Some voting and leadership approvals from the previous reporting period are still active.

FY 2024 Voluntary Standards Activities Summary

Children’s Products and Hazards

Durable Infant and Toddler Products

Section 104 of the CPSIA directs the Commission to work with stakeholders and SDOs to examine and assess the effectiveness of voluntary product safety standards for durable infant and toddler products. Once a regulation is promulgated based on a voluntary standard, the SDO notifies the Commission of updates to the standard. Unless the Commission notifies the SDO within 90 days of the update notice that the proposed revision does not improve the safety of the product, the revised standard will be considered a consumer product safety standard issued by the Commission effective 180 days after the SDO notifies the Commission (or a later date specified by the Commission in the *Federal Register*). However, if the Commission determines that the proposed revised standard does not improve the safety of the consumer product covered by the standard, the Commission may timely notify the SDO that the applicable mandatory children’s product safety rule remains unchanged. After the Commission issues a mandatory safety standard for a durable infant or toddler product, the Commission must periodically review and revise the standard to ensure that such standard provides the highest level of safety for such product that is feasible.

Bassinets/Cradles

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with bassinets and cradles.

Staff Contact Kish, Celestine

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2194-22e1	<i>Standard Consumer Safety Specification for Bassinets and Cradles</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1218, *Safety Standard for Bassinets and Cradles*

Note: 16 CFR part 1218 references the -13 version, with modifications. ASTM F2194-16e1 version is similar to the regulation.

On March 20, 2024, the Commission voted to publish a Notice of Proposed Rulemaking (NPR) to update the standard. It had not been published by the end of the reporting period.

Activities Summary

Staff continues to work with the subcommittee on safe sleep issues for bassinets and cradles. During the reporting period, staff participated in a subcommittee meeting and a task group meeting on mattress pads and latching, provided incident data, and responded to a ballot. Additionally, staff prepared an NPR for Commission consideration.

Meeting(s)

Staff participated in an ASTM F15.18 subcommittee meeting where CPSC-provided data were discussed, as well as task group updates. Staff also participated in a task group meeting to discuss mattress pads and latching.

Communication(s)

Date	Type	Summary
10/26/2023	Data	Staff provided the subcommittee with incident data for bassinets from 3/1/2022-8/31/2023.
12/18/2023	Letter	Staff provided the subcommittee with a formal response to the negative vote on ballot F15(23-19), item 2.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2023	ASTM F2194	Ballot F15(23-19), item 2, proposed clarifications to what is considered a mattress and revisions to the locking and latching mechanism. The item received negative votes, including from staff. The item was unresolved at the end of the reporting period.

Next Action

Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meeting scheduled in May 2024. The NPR will publish in the next reporting period.

Bedside Sleepers

Purpose

To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with bedside sleepers.

Staff Contact

Kish, Celestine

Voluntary Standard(s)

Designation and current version	Title

ASTM F2906-23	<i>Standard Consumer Safety Specification for Bedside Sleepers</i>
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Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1222, *Safety Standard for Bedside Sleepers*

Activities Summary Staff continues to work with the subcommittee on safe sleep issues related to bedside sleepers.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Booster Seats

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with booster seats.

Staff Contact Stewart, Daniel

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2640-18	<i>Standard Consumer Safety Specification for Booster Seats</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1237, *Safety Standard for Booster Seats*

Activities Summary Staff continues to work with the ASTM F15.16 subcommittee to address safety issues related to booster seats.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Carriages and Strollers

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with carriages and strollers.

Staff Contact Talcott, Kristen

Voluntary Standard(s)	Designation and current version	Title
	ASTM F833-21	<i>Standard Consumer Safety Specification for Carriages and Strollers</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1227, *Safety Standard for Carriages and Strollers*

Activities Summary Staff continues to work with the ASTM F15.17 subcommittee to address safety issues related to carriages and strollers.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings.

Changing Products

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with baby changing products.

Staff Contact Mella, Lawrence

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2388-21	<i>Standard Consumer Safety Specification for Baby Changing Products for Domestic Use</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1235, *Safety Standard for Baby Changing Products*

Activities Summary Staff continues to work with the ASTM F15.18 subcommittee on safety issues related to baby changing products.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in the next task group or subcommittee meeting, when scheduled.

Children's Folding Chairs and Stools

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with children's folding chairs and stools.

Staff Contact Gordon, Bradley

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2613-22	<i>Standard Consumer Safety Specification for Children's Chairs and Stools</i>
	WK 86690	New Specification for Children's Step Stools and Learning Towers

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1232, *Safety Standard for Children’s Folding Chairs and Children’s Folding Stools*. Note: 16 CFR Part 1232 references the -21 version.

Activities Summary Staff continues to work with the ASTM F15.59 subcommittee to address hazards associated with children’s chairs and stools. During the reporting period, staff participated in subcommittee and task group meetings and provided data.

Meeting(s) Staff participated in a subcommittee meeting, where staff explained the Commission position that folding step stools need to remain in scope. Staff participated in several task group meetings on “standing tower” products in which the task group has expressed a goal of creating a separate standard to cover these products.

Communication(s)

Date	Type	Summary
1/24/2023	Data	Staff provided the subcommittee with a spreadsheet of incident data for standing towers and step stools from 1/1/2013 through 12/31/2023.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings in May 2024.

Commercial Cribs

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with cribs in commercial settings, such as hotels and childcare centers.

Staff Contact Taxier, Daniel

Voluntary Standard(s)

Designation and current version	Title
ASTM F2710-19	<i>Standard Consumer Safety Performance Specification for Commercial Cribs</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1219, *Safety Standard for Full-Size Cribs*, and 16 CFR part 1220, *Safety Standard for Non-Full-Size Baby Cribs*

Activities Summary Staff continues to work with the ASTM F15.18 subcommittee to address hazards associated with commercial cribs.

Meeting(s) Voluntary standards meetings related to this topic did not take place during the reporting period.

Communication(s)

Date	Type	Summary
11/21/2023	Data	Staff provided the subcommittee with incident data for commercial cribs from 8/16/2022 through 8/15/2023.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings, when scheduled.

Crib Mattresses (including Supplemental and After-market Mattresses)

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with crib and supplemental mattresses.

Staff Contact Taxier, Daniel

Voluntary Standard(s)

Designation and current version	Title
ASTM F2933-21a	<i>Standard Consumer Safety Performance Specification for Crib Mattresses</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1241, *Safety Standard for Crib Mattresses*
Note: The final rule references ASTM F2933-21, the previous version of the standard.

Activities Summary Staff continues to work with the ASTM F15.66 subcommittee on safe sleep issues related to crib mattresses.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings, when scheduled.

Frame Child Carriers

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with frame child carriers.

Staff Contact Taxier, Daniel

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2549-22	<i>Standard Consumer Safety Specification for Frame Child Carriers</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1230, *Safety Standard for Frame Child Carriers*

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee on safety issues related to frame child carriers.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will attend the next subcommittee meeting, when scheduled.

Full-Size Cribs

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with full-size cribs.

Staff Contact Taxier, Daniel

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1169-19	<i>Standard Consumer Safety Specification for Full-Size Cribs</i>

Standard(s) Update	The voluntary standard was not updated during the reporting period.
Relevant Rule	16 CFR part 1219, <i>Safety Standard for Full-Size Cribs</i>
Activities Summary	Staff continues to work with the ASTM F15.18 subcommittee and related task groups on safe sleep issues, including inclined sleep surfaces.
Meeting(s)	No meetings related to relevant standards or topics took place during the reporting period.
Communication(s)	There were no formal communications during the reporting period.
Ballot(s)	There were no relevant ballots during the reporting period.
Next Action	Staff will participate in any upcoming subcommittee meetings, when scheduled.

Gates and Expandable Enclosures

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with expansion gates and expandable enclosures.

Staff Contact Torres, Carlos

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1004-23	<i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1239, *Safety Standard for Gates and Enclosures*
Note: 16 CFR part 1239 references the -22 version.

Activities Summary Staff continues to work with the ASTM F15.11 subcommittee on improving the safety of gates and enclosures. During the reporting period, staff participated in a subcommittee and task group meeting.

Meeting(s) Staff participated in a subcommittee meeting to discuss wall cups and third-party accessory concerns and retractable gates. Staff also

participated in a task group meeting to discuss expansion gates with pet doors.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings in May 2024.

Handheld Infant Carriers

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with hand-held infant carriers.

Staff Contact DeGrano, Frederick

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2050-19	<i>Standard Consumer Safety Performance Specification for Hand-Held Infant Carriers</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1225, *Safety Standard for Hand-Held Infant Carriers*

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee to address hazards associated with hand-held infant carriers. During the reporting period, staff requested a meeting to discuss firmness requirements.

Meeting(s) Voluntary standards meetings related to this topic did not take place during the reporting period.

Communication(s)	Date	Type	Summary
	11/14/2023	Letter	Staff requested a meeting of the F15.21 Infant Carriers Subcommittee to discuss potential firmness requirements.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled.

High Chairs

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with high chairs.

Staff Contact Marques, Stefanie

Voluntary Standard(s)	Designation and current version	Title
	ASTM F404-21	<i>Standard Consumer Safety Specification for High Chairs</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1231, *Standard Consumer Safety Specification for High Chairs*.

Activities Summary Staff continues to work with the ASTM F15.16 subcommittee on improving safety of high chairs. During the reporting period, staff participated in a subcommittee meeting and provided the subcommittee with incident data.

Meeting(s) Staff participated in a subcommittee meeting where CPSC incident data were reviewed. A task group was formed to review incident data over the last five years to identify any new hazards that might be present.

Communication(s)	Date	Type	Summary
	11/7/2023	Data	Staff provided the subcommittee with a summary of incident data for high chairs from 7/2/2021 through 10/11/2023.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting when scheduled.

Infant Bath Seats

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the

corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant bath seats.

Staff Contact Kerns, Julia

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1967-19	<i>Standard Consumer Safety Specification for Infant Bath Seats</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1215, *Safety Standard for Infant Bath Seats*

Activities Summary Staff continues to work with the ASTM F15.20 subcommittee to address hazards associated with infant bath seats. Staff participated in the subcommittee and led task group meetings and provided data during the reporting period.

Meeting(s) Staff participated in a subcommittee meeting and led task group meetings related to the test fixture.

Communication(s)	Date	Type	Summary
	11/7/2023	Data	Staff provided the subcommittee with a spreadsheet of incident data from 1/1/2000 through 9/5/2023.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	November 2023	ASTM F1967	Ballot F15(23-15), item 1, proposed to clarify the Stability Test Procedure to ensure it is clear that bath seats intended to contact the floor of the test platform are to be tested on both testing surface #1 and #2. The item was unresolved at the end of the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting in May 2024.

Infant Bath Tubs

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the

corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant bath tubs.

Staff Contact Foster, Zachary

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2670-22	<i>Standard Consumer Safety Specification for Infant Bath Tubs</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1234, *Safety Standard for Infant Bath Tubs*

Activities Summary Staff continues to work with the ASTM F15.20 subcommittee on issues related to drowning, stability, and resistance to the collapse of infant bath tubs. During the reporting period, staff participated in subcommittee and task group meetings and provided incident data to the subcommittee.

Meeting(s) Staff participated in a subcommittee meeting and task group meetings related to stability and warnings/pictograms.

Communication(s)

Date	Type	Summary
11/20/2023	Data	Staff provided the subcommittee with incident data for the period 1/1/2018 through 10/31/2023.
2/29/2024	Data	Staff provided the subcommittee with a summary of the annual incident data for the period ending 1/5/2024.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in the upcoming subcommittee meeting in May 2024.

Infant Bouncer Seats

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant bouncer seats.

Staff Contact Wanna-Nakamura, Suad

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2167-22	<i>Standard Consumer Safety Specification for Infant Bouncer Seats</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1229, *Safety Standard for Infant Bouncer Seats*

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant bouncer seats. During the reporting period, staff provided the subcommittee with annual incident data related to bouncer seats.

Meeting(s) Voluntary standards meetings related to this topic did not take place during the reporting period.

Communication(s)	Date	Type	Summary
	7/24/2023	Data	Staff provided the subcommittee with a summary of the annual incident data related to bouncer seats from 3/10/2022 to 4/6/2023.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings, when scheduled.

Infant Swings

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant swings.

Staff Contact Torres, Carlos

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2088-24	<i>Standard Consumer Safety Specification for Infant and Cradle Swings</i>

Standard(s) Update On March 18, 2024, ASTM provided notification to CPSC of the latest revision to the standard, ASTM F2088-24, *Standard Consumer Safety Specification for Infant and Cradle Swings*. This revision includes changes to the requirements for tethered straps or cords.

Relevant Rule 16 CFR part 1223, *Safety Standard for Infant Swings*

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee on strangulation and head entrapment hazards on tethered straps. During the reporting period, staff participated in subcommittee and task group meetings on strangulation hazards and warnings, provided data to the subcommittee, and began work on a briefing package for Commission consideration.

Meeting(s) Staff participated in subcommittee and task group meetings on strangulation hazards related to tethered straps and safe sleep warnings.

Communication(s)

Date	Type	Summary
11/21/2023	Data	Staff provided the subcommittee with a spreadsheet of incident data for the period 8/8/2017 through 10/31/2023.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2023	ASTM F2088	Ballot F15(23-17), item 7, proposed to update the requirement and test methods for tethered straps and bounded openings. The item passed.
April 2024	ASTM F2088	Ballot F15(24-05), item 2, proposed to add tolerances to the neck cylinder test fixture. The item was unresolved at the end of the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings in May 2024. Additionally, staff will prepare a briefing package for Commission consideration on the revision to the standard.

Infant Walkers

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant walkers.

Staff Contact Mordecai, Ben

Voluntary Standard(s)	Designation and current version	Title
	ASTM F977-22	<i>Standard Consumer Safety Specification for Infant Walkers</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1216, *Safety Standard for Infant Walkers*

Activities Summary Staff continues to work with the ASTM F15.17 subcommittee on safety issues related to infant walkers. During the reporting period, staff participated in a subcommittee meeting.

Meeting(s) Staff participated in a subcommittee meeting where the recently updated standard was discussed.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings, scheduled for May 2024.

Non-Full-Sized Cribs and Play Yards

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with non-full-sized cribs and play yards.

Staff Contact DeGrano, Frederick

Voluntary Standard(s)	Designation and current version	Title
	ASTM F406-22	<i>Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1220, *Safety Standard for Non-Full-Size Baby Cribs*
16 CFR part 1221, *Safety Standard for Play Yards*

Note: 16 CFR part 1221 continues to reference the -19 version.

Activities Summary

Staff continues to work with the ASTM F15.18 subcommittee on safe sleep issues related to non-full-size baby cribs and play yards. During the reporting period, staff participated in subcommittee and task group meetings, provided comments on ballots, and provided data to the subcommittee.

Meeting(s)

Staff attended a subcommittee meeting where the subcommittee discussed results of ballot items, the status of aligning the standard with 16 CFR part 1221, and progress of task groups. Staff also participated in task group meetings for developing pictogram warning labels, requirements for products with padded floors, and definitions and warning label requirements pertaining to the strangulation hazard associated with accessories.

Communication(s)

Date	Type	Summary
10/19/2023	Data	Staff provided the subcommittee with IDIs involving play yards.
11/9/2023	Letter	Staff abstained with comments on ballot F15(23-17) item 13.
2/2/2024	Letter	Staff voted negative on ballot F15(24-01), item 1, and provided the subcommittee with comments.
3/29/2024	Letter	Staff voted negative on ballot F15(24-05), item 3, and provided the subcommittee with comments.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2023	ASTM F406	Ballot F15(23-17), item 13, proposed changes to the marking and labeling requirements in the standard, including ad hoc language recommendations. The item was approved.
February 2024	ASTM F406	Ballot F15(24-01), item 1, proposed definitions and requirements to allow for padded floors in play yards. The item received negative votes and remained unresolved at the end of the reporting period.
March 2024	ASTM F406	Ballot F15(24-05), item 3, proposed updates to definitions and warning label requirements pertaining to the strangulation hazard associated with accessories for non-full-size cribs and play yards. The item was unresolved at the end of the reporting period.

Next Action Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting, scheduled in May 2024.

Portable Bed Rails (Children’s)

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with portable bed rails for children.

Staff Contact Taxier, Daniel

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2085-19	<i>Standard Consumer Safety Specification for Portable Bed Rails</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1224, *Safety Standard for Portable Bed Rails*

Activities Summary Staff continued to work with the ASTM F15.11 subcommittee to improve the safety of children’s portable bedrails.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in the next subcommittee meetings, when scheduled.

Portable Hook-On Chairs

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with hook-on chairs.

Staff Contact Mella, Lawrence

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1235-18	<i>Standard Consumer Safety Specification for Portable Hook-On Chairs</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1233, *Safety Standard for Hook-On Chairs*

Activities Summary Staff continued to work with the ASTM F15.16 subcommittee to improve the safety of children’s portable hook-on chairs. During the reporting period, staff participated in a subcommittee meeting.

Meeting(s) Staff participated in a subcommittee meeting to discuss incident data and an ad hoc language task group.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will provide annual summary incident data and participate in the next ASTM subcommittee meeting, when scheduled.

Sling Carriers (Infant and Toddlers)

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with sling carriers.

Staff Contact Foster, Zachary

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2907-22	<i>Consumer Safety Specification for Sling Carriers</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1228, *Safety Standard for Sling Carriers*

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee on sling carrier products.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in the next subcommittee meeting, when scheduled.

Soft Infant and Toddler Carriers

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with soft infant and toddler carriers.

Staff Contact Foster, Zachary

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2236-16a	<i>Standard Consumer Safety Specification for Soft Infant and Toddler Carriers</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1226, *Safety Standard for Soft Infant and Toddler Carriers*

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee on soft infant and toddler carrier products. .

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting in May 2024.

Stationary Activity Centers

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with stationary activity centers for children.

Staff Contact Taxier, Daniel

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2012-18e1	<i>Standard Consumer Safety Specification for Stationary Activity Centers</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1238, *Safety Standard for Stationary Activity Centers*

Activities Summary Staff continues to work with the ASTM F15.17 subcommittee on stationary activity centers.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s)	Date Closed	Voluntary Standard	Summary and Results (If Applicable)
	November 2023	ASTM F2012	Ballot F15(23-17), item 6, proposed to have exemplar label layouts to display paragraph formats in the standard to complement the current standard warning language.

Next Action Staff will participate in the next subcommittee meeting, when scheduled.

Toddler Beds

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with toddler beds.

Staff Contact Kish, Celestine

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1821-19e1	<i>Standard Consumer Safety Specification for Toddler Beds</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1217, *Safety Standard for Toddler Beds*

Activities Summary Staff continues to work with the ASTM F15.18 subcommittee on toddler beds.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Other Children's Products and Hazards

Child-Resistant Packages (CRP)

Purpose To maintain adequate safety levels addressing hazards associated with child-resistant packaging by monitoring developments that affect the federal mandatory standard, including working with ASTM on voluntary standards for package design and development.

Staff Contact Michael, Samantha

Voluntary Standard(s)	Designation and current version	Title
	ASTM D3474-90(2018)	<i>Standard Practice for Calibration and Use of Torque Meters Used in Packaging Applications</i>
	ASTM D3475-20	<i>Standard Classification of Child-Resistant Packages</i>
	ASTM D7860 – 14 (2022)	<i>Standard Test Methods for Measurement of Torque Retention for Child Resistant and Non-Child Resistant Packages with Continuous Thread</i>

	<i>Closures Using Automated Torque Testing Equipment</i>
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Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1700, *Poison Prevention Packaging*

Activities Summary During the reporting period, staff attended a subcommittee meeting and provided comments on systematic reviews of ISO 14375 and ISO 28862.

Meeting(s) Staff attended subcommittee meetings for F02.25, *Rigid Container Closure Systems*, F02.30, *Mechanical Dispensers*, and F02.80, *Liaisons*, to monitor activity of the subcommittees.

Communication(s)	Date	Type	Summary
	11/29/2023	Email	Staff provided comments on systematic reviews of ISO 14375 and ISO 28862.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings, when scheduled. Staff will review ballots, when issued.

Infant Bedding

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing hazards associated with infant bedding.

Staff Contact Johnson, Ashley

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1917-23	<i>Standard Consumer Safety Specification for Infant Bedding and Related Accessories</i>
	WK 84613	New Standard Test Method for Firmness of Infant Products

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1309, *Ban of Crib Bumpers* [88 FR 54879]

Activities Summary

Staff continues to work with the ASTM F15.19 subcommittee on infant bedding. Staff participated in infant bedding subcommittee and rebreathing task group meetings during the reporting period.

Meeting(s)

Staff participated in a subcommittee meeting focused on activity related to the Methods for the Measuring Re-Breathing task group (TG), which is developing standard test methods to assess the firmness, airflow resistance, and carbon dioxide (CO₂) rebreathing of various infant products. Staff participated in multiple rebreathing task group meetings during the reporting period, contributing to the development of a firmness test method.

Communication(s)

Date	Type	Summary
11/7/2023	Letter	Staff provided the subcommittee with comments on the draft WK84613.
1/22/2023	Letter	Staff provided the subcommittee with comments on ballot F15.19(23-04), item 1.

Ballot(s)

Date Closed	Voluntary Standard	Summary and Results (If Applicable)
January 2024	N/A	Ballot F15.19(23-04), item 1, proposed a new standard test method for airflow resistance of infant products. There were multiple negatives and comments, and the item was removed from the ballot.
January 2024	N/A	Ballot F15(23-20), item 3, proposed a new standard test method for firmness of soft infant products. There were multiple negatives and comments. Two negatives have been withdrawn, but the item was unresolved at the end of the reporting period.

Next Action

Staff will participate in the next Infant Bedding subcommittee and rebreathing task group meetings, when scheduled.

Gasoline Containers, Child Resistance

Purpose

To work with ASTM to revise the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with the poisoning of children from gasoline from portable fuel containers.

Staff Contact

Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2517-22e1	<i>Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1460, *Children’s Gasoline Burn Prevention Act Regulation* .

Activities Summary Staff continues to work with the ASTM F15.10 subcommittee on child resistance of gasoline containers.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue to participate with the ASTM F15.10 subcommittee on the voluntary standard.

Infant Bathtubs

Purpose To work with ASTM to ensure that the voluntary standard maintains adequate safety levels addressing hazards associated with infant bathtubs.

Staff Contact Komarov, Andrei

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3343-20e1	<i>Standard Consumer Safety Specification for Infant Bathtubs</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the ASTM F15.20 subcommittee on infant bathing safety. During the reporting period, staff provided the subcommittee with incident data.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s)

Date	Type	Summary
3/25/2024	Data	Staff provided the subcommittee with incident data for the period 1/1/2020 through 12/31/2023.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings in May 2024.

Infant Support Cushions

Purpose To work with ASTM To work with ASTM on establishing a voluntary standard to address hazards associated with infant support cushions.

Staff Contact Johnson, Ashley

Voluntary Standard(s)

Designation and current version	Title
ASTM WK82078	Potential new voluntary standard for Infant Loungers

Standard(s) Update The voluntary standard was under development during the reporting period.

Relevant Rule On January 16, 2024, the Commission published an NPR for a *Safety Standard for Infant Support Cushions* [89 FR 2530]. At the end of the reporting period, staff was developing a draft notice of availability and request for comment (NOA) for *Data Regarding Incidents Associated With Infant Support Cushions* for Commission consideration.

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee to develop the voluntary standard. During the reporting period, staff attended a subcommittee and task group meetings.

Meeting(s) During the reporting period, staff has attended two subcommittee and several performance task group meetings. The task group worked on issues such as side height, incline angle, and firmness as well as reviewing incident data.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings in May 2024.

Infant Rockers

Purpose To work with ASTM to ensure that the voluntary standard maintains adequate safety levels addressing hazards associated with infant rockers.

Staff Contact Foster, Zachary

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3084-24	Standard Consumer Safety Specification for Infant and Infant/Toddler Rockers

Standard(s) Update In January 2024, ASTM published ASTM F3084-24, *Standard Consumer Safety Specification for Infant and Infant/Toddler Rockers*. This revision includes changes to the forward stability test and adds requirements for restraints, battery compartments, and warning labels.

Relevant Rule On October 26, 2023, the Commission published an NPR for a new regulation, 16 CFR part 1240, *Safety Standard for Infant and Infant/Toddler Rockers* [88 FR 73551].

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee on infant and infant/toddler rockers. During the reporting period, staff participated in a subcommittee meeting and reviewed balloted items. Additionally, staff continued work on a NOA for data used to support the NPR and a final rule briefing package for Commission consideration.

Meeting(s) Staff participated in a subcommittee meeting where ballot items were discussed. Additionally, CPSC staff provided an overview of the NPR.

Communication(s) There were no formal communications during the reporting period.

Ballot(s)

Date Closed	Voluntary Standard	Summary and Results (If Applicable)
November 2024	ASTM F3084	Ballot F15(23-17), item 8, proposed revisions to terminology, performance requirements, and warning requirements to allow infant/toddler rockers to provide a means of storing restraints. This item passed.
November 2023	ASTM F3084	Ballot F15(23-17), item 9, proposed performance requirements for battery compartments and a battery leakage test. This item passed.
November 2024	ASTM F3084	Ballot F15(23-17), item 10, proposed revisions to the forward stability test, as well as revisions to the terminology to add weight limits to the definitions of infant rocker and infant/toddler rocker. This item passed.
March 2024	ASTM F3084	Ballot F15(24-05), item 1, proposed performance requirements and a test method to evaluate tethered straps. This item received four comments and one administrative negative and was unresolved at the end of the reporting period.

Next Action

Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2024. Staff is developing and NOA for data used to support the NPR and a FR for Commission consideration.

Nursing Support Products

Purpose

To work with ASTM on establishing voluntary standards to address hazards associated with nursing support products.

Staff Contact

Smith, Timothy

Voluntary Standard(s)

Designation and current version	Title
ASTM WK82241	Potential new voluntary standard for Infant Feeding Supports

Standard(s) Update

The voluntary standard was under development during the reporting period.

Relevant Rule On September 26, 2023, the Commission published an NPR for a *Safety Standard for Nursing Pillows* [88 FR 65865]. At the end of the reporting period, staff was developing a draft notice of availability and request for comment for *Data Regarding Incidents Associated With Nursing Pillows* for Commission consideration.

Activities Summary Staff continued to work with the ASTM F15.16 subcommittee to develop a new safety standard for infant feeding supports. During the reporting period, staff participated in subcommittee and task group meetings and assisted in the development of the voluntary standard.

Meeting(s) Staff attended numerous subcommittee and task group meetings for infant feeding supports, contributing to task groups on scope, warning requirements, and performance requirements.

Communication(s) There were no formal communications during the reporting period.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2024	ASTM WK82241	Ballot F15(23-20), item 2, proposed the new standard for infant feeding supports. The item received multiple negatives and was unresolved at the end of the reporting period.

Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meetings, scheduled in May 2024. Staff will also continue work on rulemaking efforts for these products.

Toys

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with toys.

Staff Contact Mordecai, Benjamin

Voluntary Standard(s)	Designation and current version	Title
	ASTM F963-23	<i>Standard Consumer Safety Specification for Toy Safety</i>

ASTM D8133-23	<i>Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction-Gas Chromatography/Mass Spectrometry</i>
ASTM F1313-90 (2011)	<i>Standard Specification for Volatile N-Nitrosamine Levels in Rubber Nipples on Pacifiers</i>

**Standard(s)
Update**

On October 23, 2023, ASTM provided notification to CPSC of the latest revision to the standard, ASTM F963-23, *Standard Consumer Safety Specification for Toy Safety*. The revision included changes to sound-producing toys, toy substrates, battery-operated toys, heavy metals, projectile toys, phthalates, expanding materials, tracking labels, and the drop test floor specification.

**Relevant
Rule**

16 CFR part 1250, *Safety Standard for Toys*

On January 18, 2024, the Commission published a direct final rule to update the standard [89 FR 3344] with an effective date of April 20, 2024.

At the end of the reporting period, staff was drafting three briefing packages under section 106 of the CPSIA for Commission consideration for water beads, neck floats, and button cell or coin cell batteries.

**Activities
Summary**

Staff continues to work with the ASTM F15.22 subcommittee on toy safety issues. During the reporting period, staff participated in subcommittee and task group meetings, and provided multiple recommendations on safety improvements for F963 including requirements for water beads, neck floats, and battery-powered toys. Additionally, staff delivered a direct final rule briefing package to the Commission to update the standard and is developing three NPR briefing packages to cover water beads, neck floats, and battery issues under section 106 of the CPSIA.

Staff is working with the ASTM D20.70 subcommittee to review the status of several analytical methods. Staff participated in an interlaboratory study (ILS) for ASTM D8133-23 in FY23. The purpose of the ILS is to determine the Precision and Bias statement for ASTM D8133-23 (both Methods A and B).

Meeting(s)

Staff attended ASTM F15.22 subcommittee meetings and task group meetings on aquatic toys, and emerging hazards, which included discussion of expanding materials (water beads) and button cell and coin cell batteries used in toys.

Staff also attended several ASTM D20.70 subcommittee meetings and task group meetings on Analytical Methods to discuss the findings from the ILS for ASTM D8133.

Staff has been added to the task group to update ASTM F1313-90 (2011), *Standard Specification for Volatile N-Nitrosamine Levels in Rubber Nipples on Pacifiers*.

<i>Communication(s)</i>	Date	Type	Summary
	11/28/2023	Letter	Staff made recommendations to the subcommittee on water bead requirements and provided additional information on incident data and potential toxicity.
	1/19/2024	Letter	Staff provided answers on incidents, testing, and toxicity to the subcommittee asked in response to the November 2023 letter.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in upcoming ASTM task group meetings and subcommittee meetings, when scheduled. The ASTM D20.70 subcommittee on analytical methods will meet in November 2024. Staff expects to deliver three NPR briefing packages for Commission consideration this fiscal year.

Wearable Infant Blankets

Purpose To work with ASTM to address hazards associated with wearable infant blankets and swaddles, some with weighted components, to mitigate hazards such as suffocation and strangulation.

Staff Contact Phillips, Khalisa

Voluntary Standard(s)	Designation and current version	Title
	ASTM WK81176	New Standard Consumer Safety Specification for Wearable Blankets and Swaddles Intended for Use by Infants and Toddlers

Standard(s) Update The voluntary standard was under development during the reporting period.

Relevant Rule N/A

Activities Summary

Staff continued working with ASTM to address unresolved negative votes on the draft standard associated with suffocation, strangulation, and other potential hazards associated with wearable blankets (sleep sacks), swaddles, modular products that alter functionality, and wearable products with weighted components used by infants and toddlers during sleep. During the reporting period, staff participated in several subcommittee and task group meetings, reviewed one ballot item, and provided a wearable blanket in-depth investigation report. Staff presented a market scan of products potentially subject to the draft standard to better understand the range of designs, textiles used, and types of fill materials to add warmth, and / or weighted features to help inform the subcommittee of products on the market.

Meeting(s)

Staff participated in multiple subcommittee and task group meetings to develop a draft standard for ballot. The meetings focused on scope, performance requirements, data, and warnings. Staff participated in extensive discussions regarding weighted wearable infant sleep products and their safety.

Communication(s)

Date	Type	Summary
11/16/2023	Letter	Staff voted negative and provided comments on ballot F15.19(23-03).
1/10/2024	Data	Staff provided the subcommittee with an IDI involving a weighted swaddle wrap.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2023	WK81176	Ballot F15.19(23-03), proposed the new standard. The ballot item received many negatives and comments. The subcommittee was still addressing comments at the end of the reporting period.

Next Action

Staff will participate in the next ASTM subcommittee meeting, as well as any task group meetings, when scheduled. Staff will provide incident data to the subcommittee.

Weighted Blankets (Ages 3+)

Purpose

To work with ASTM to establish a voluntary standard addressing hazards associated with weighted blankets intended for children weighing 30 lbs. (13.6 kg) or more and a minimum 3 years of age.

Staff Contact Wanna-Nakamura, Suad

Voluntary Standard(s)	Designation and current version	Title
	ASTM WK	New Standard Consumer Safety Specification for Weighted Blankets

Standard(s) Update The voluntary standard was under development during the reporting period.

Relevant Rule N/A

Activities Summary Staff continued working with the ASTM F15.74 subcommittee to develop a draft standard for weighted blankets for children weighing 30 lbs. (13.6 kg) or more and a minimum of 3 years of age. During the reporting period, staff participated in subcommittee meetings.

Meeting(s) Staff participated in an ASTM F15.74 subcommittee meeting to discuss the status of the next ballot.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Steps Staff will participate in the next subcommittee meeting, scheduled for June 24, 2024.

Emerging Technology

Additive Manufacturing/3D Printing

Purpose To work with ULSE, ASTM, and other SDOs to develop standards for Additive Manufacturing and 3D Printers to address the hazards associated with 3D printed products and the 3D printing process

Staff Contact Thomas, Treye

Voluntary Standard(s)	Designation and current version	Title
	UL 2904, 1 st Edition	<i>Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers</i>

Standard(s) The voluntary standard was not updated during the reporting period.

Update

Relevant Rule N/A

Activities Summary Staff continues to participate in working and task groups focused on addressing the potential health and safety implications of additive manufacturing.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue to participate in meetings to work on enhancements to the standards. Staff will discuss with UL 2904 distribution of the guidance presented in Annex I to consumers and small manufacturers on best practices for minimizing health risks during production of products and ensuring adherence to product-relevant voluntary and mandatory safety standards. Staff will also continue monitoring the ASTM F42 Committee on Additive manufacturing technologies.

Artificial Intelligence

Purpose To work with applicable SDOs to develop standards to address the safety hazards associated with artificial intelligence in consumer products.

Staff Contact Lee, Simon

Voluntary Standard(s)	Designation and current version	Title
	UL 4600	<i>Standard for Safety for the Evaluation of Autonomous Products</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary CPSC staff continues to identify opportunities to improve the safety of consumer products that use artificial intelligence and related technologies. During the reporting period, staff participated in multiple ASTM F15.75 subcommittee and task group meetings. Staff also met with Samsung to see demonstrations of AI/ML used in consumer products and

discussed standards requirements for these products. Additionally, staff participated in a multi-agency “EnforcerCON” sponsored by the Consumer Financial Protection Bureau and an Organization for Economic Co-operation and Development workshop discussing AI/ML, and Connected Products issues, trends, and standards activities.

- Meeting(s)** Staff participated in multiple ASTM F15.75 Connected Products subcommittee and task group meetings focused on AI/ML. The subcommittee is looking at Artificial Intelligence (AI) and how it could be implemented in the current ASTM F3463-21, *Standard Guide for Ensuring the Safety of Connected Consumer Products*.
- Communication(s)** There were no formal communications during the reporting period.
- Ballot(s)** There were no ballots during the reporting period.
- Next Action** Staff plans to participate in the next UL STP 4600 and ASTM F15.75 meetings. Staff will continue to monitor and participate in other applicable voluntary standards, federal agency, industry, partner workshops and CPSC projects.

Internet of Things (IoT)/Connected Products

Purpose To work with ULSE, ASTM, and other stakeholders to revise existing voluntary standards and develop new voluntary standards to address hazards associated with connected consumer products.

Staff Contact Lee, Simon

Voluntary Standard(s)	Designation and current version	Title
	UL 5500, 1st Edition	<i>Remote Software Updates</i>
	UL 2900-1, 1st Edition	<i>Software Cybersecurity for Network-Connectable Devices</i>
	ASTM F3463-21	<i>Standard Guide for Ensuring the Safety of Connected Consumer Products</i>

Standard(s) Update In December 2023, ULSE published UL 2900-1 Ed. 2, *Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements*. The voluntary standard was revised to incorporate editorial changes, renumbering and reformatting to align with current style.

Relevant Rule N/A

Activities Summary

CPSC staff continues to work to improve the safety of connected consumer products. Toward this goal, during the reporting period staff participated in ASTM F15.75 meetings. Staff also participated in a multi-agency “EnforcerCON” sponsored by the Consumer Financial Protection Bureau and the international Organization for Economic Co-operation and Development workshop discussing AI/ML, and Connected Products issues, trends, and standards activities.

Meeting(s)

Staff participated in multiple ASTM F15.75 Connected Products subcommittee and task group meetings focused on AI/ML. The subcommittee is looking at Artificial Intelligence (AI) and how it could be implemented in the current ASTM F3463-21, *Standard Guide for Ensuring the Safety of Connected Consumer Products*.

Communication(s)

There were no formal communications during the reporting period.

Ballot(s)

There were no ballots during the reporting period.

Next Action

Staff plans to continue to participate in the next ASTM F15.75 meeting, when scheduled. Staff will continue to monitor and participate in other applicable IoT voluntary standards, federal agency, industry, partner workshops and CPSC projects.

Nanotechnology

Purpose

To work with ASTM and ISO technical committees to develop and revise voluntary standards to strengthen safety provisions addressing hazards associated with nanotechnology.

Staff Contact

Matheson, Joanna

Voluntary Standard(s)

Designation and current version	Title
ASTM E3025-22	<i>Standard Guide for Tiered Approach to Detection and Characterization of Manufactured Silver Nanomaterials in Textiles</i>
ASTM E2525-22	<i>Standard Test Method for Evaluation of the Effect of Nanoparticulate Materials on the Formation of Mouse Granulocyte-Macrophage Colonies</i>
ASTM E3171-21	<i>Standard Test Method for Determination of Total Silver in Textiles by ICP-OES or ICP-MS Analysis</i>

ASTM E3238-20	<i>Standard Test Method for Quantitative Measurement of the Chemoattractant Capacity of a Nanoparticulate Material in vitro</i>
ASTM WK60553	Potential new voluntary standard for evaluation of nanoparticulate material internalization by phagocytic cells in vitro
ASTM E3351-22	<i>Standard Test Method for Detection of Nitric Oxide Production In Vitro</i>
ISO/TS 13830:2013	<i>Nanotechnologies — Guidance on voluntary labelling for consumer products containing manufactured nano-objects</i>
ISO/TS 5387:2023	<i>Nanotechnologies — Lung burden mass measurement of nanomaterials for inhalation toxicity tests</i>
ISO/TS 24672:2023	<i>Nanotechnologies — Guidance on the measurement of nanoparticle number concentration.</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with ASTM and ISO on the safety of nanotechnology in consumer products. During the reporting period, staff participated in multiple ASTM and ISO meetings.

Meeting(s) Staff participated in the ISO/TC 229 nanotechnologies working group meetings to discuss current projects and potential new work item proposals. Staff also participated in US TAG to ISO/TC 229 meetings to discuss work going on in the ISO/TC 229 working groups.

Staff participated in ASTM E56 committee meetings where, among other items discussed, staff participated in discussions on revising ASTM E2525.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming working group and subcommittee meetings.

Service, Communication, Information, Education, and Entertainment (SCIEE) Robots

Purpose To work with ULSE to develop a new voluntary standard for SCIEE robots.

Staff Contact Goldstein, Zachary

Voluntary Standard(s)	Designation and current version	Title
	UL 3300	Potential new voluntary standard for SCIEE robots

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with ULSE to develop the new standard and is participating in multiple task groups for the effort. During the reporting period, staff participated in three UL STP 3300 meetings.

Meeting(s) Staff participated in STP meetings focused on reviewing comments submitted on the draft ballot.

Communication(s) There were no formal communications during the reporting period.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2024	UL 3300	Initial round of ballot and commenting on the proposed final draft. The ballot was passed to the next level.
	April 2024	UL 3300	Recirculation ballot to review changes made in response to comments on earlier ballot. The ballot was still open at the end of the reporting period.

Next Action Staff will continue to participate in STP meetings. The current draft of the standard is actively out for balloting, and pending the responses staff anticipates the final draft will be published by Summer of 2024.

Wearables

Purpose To work with ULSE and any other SDOs to develop voluntary standards for wearable technologies to keep consumers safe.

Staff Contact Thomas, Treye

Voluntary Standard(s)	Designation and current version	Title
	UL 8400 Edition 1	<i>Virtual Reality, Augmented Reality and Mixed Reality Technology Equipment</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the ULSE to improve the safety of wearable technology products. During the reporting period, staff participated in numerous task groups and STP meetings. Staff also participated in ASTM F24.24 AR/VR task group meetings on hygiene issues related to use of these products with amusement park attractions.

Meeting(s) Staff is working to revise the first edition of UL 8400, by participating in regular, reoccurring STP and task group meetings. Staff recommended ways to improve the draft standard, including the sections on age requirements, transmittance, biomechanical stress, biocompatibility, safety and warning instructions, functional safety, and general requirements, among others, in preparation for the upcoming second edition of the standard.

Staff also participates in the Skin Compatibility Task Group (TG). The group participants discussed the scope of the section and if the title should be changed to Biocompatibility to broaden the scope of potential hazards covered, and whether it would include accessories used with VR headsets.

Communication(s)	Date	Type	Summary
	11/9/2023	Data	Staff provided incident data on AR/VR for the period 2016-2022.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue to participate in STP meetings and efforts to improve the standard.

Home Products and Hazards

Adult Portable Bed Rails

Purpose To work with ASTM to revise the voluntary standard, as needed, to address hazards associated with adult portable bed rails.

Staff Contact Dayal, Vineed

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3186-24	Standard Specification for Adult Portable Bed Rails and Related Products

Standard(s) Update In March 2024, ASTM published the revised ASTM F3186-24. Revisions included definitions and editorial changes. The revisions do not harmonize the voluntary standard with 16 CFR part 1270, nor do they address all the concerns raised in previous CPSC letters to the subcommittee.

Relevant Rule 16 CFR part 1270, *Safety Standard for Adult Portable Bed Rails*

Activities Summary Staff continued to work with the ASTM F15.70 subcommittee to improve the safety of adult portable bedrails.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue to participate in subcommittee meetings, as scheduled.

Bath Tubs (Adult)

Purpose To work with ASTM to re-establish F462 or develop a new voluntary standard to address fall hazards associated with adult bath tubs and shower facilities, with particular focus on older consumers.

Staff Contact Gordon, Bradley

Voluntary Standard(s)	Designation and current version	Title
	ASTM F462-79(2007) (Withdrawn in 2016)	<i>Consumer Safety Specification for Slip-Resistant Bathing Facilities</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the ASTM F15.03 subcommittee to develop a new standard that addresses slip and fall hazards in bath tubs and shower surfaces. During the reporting period, staff participated in two subcommittee meetings. Additionally, staff is working on a stakeholder workshop on the issue.

Meeting(s) Staff participated in subcommittee meetings focused on updating the standard.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Batteries, Fire (High-Energy Density)

Purpose To work with the various SDOs on revising battery, battery charger, and battery-powered product safety voluntary standards and support developing certification programs for batteries to address fire-related hazards, including overheating, thermal burns, fires, and explosions.

Staff Contact Kadiwala, Jay

Voluntary Standard(s)	Designation and current version	Title
	UL 1642, 6 th Edition	<i>Standard for Safety for Lithium Batteries</i>
	UL 2272, 2 nd Edition	<i>Standard for Electrical Systems for Personal E-Mobility Devices</i>
	UL 2849, 1 st Edition	<i>Standard for Electrical Systems for e-Bikes</i>

UL 9540, 2 nd Edition	<i>Standard for Energy Storage Systems and Equipment</i>
UL 9540A, 1 st Edition	<i>Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems</i>
OOI 2056	<i>Outline of Investigation for Safety of Lithium-ion Power Banks</i>
UL 2054, 3 rd Edition	<i>Household and Commercial Batteries</i>
UL 60086-4, 1 st Edition	<i>Standard for Safety of Primary Batteries, Part 4: Safety of Primary Batteries</i>
UL 62133, 1 st Edition	<i>Secondary Cells and Batteries Containing Alkaline and Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications</i>
UL 62133-1, 1 st Edition	<i>Secondary Cells and Batteries Containing Alkaline and Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications, Part 1: Nickel Systems</i>
UL 62133-2, 1 st Edition	<i>Secondary Cells and Batteries Containing Alkaline and Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications, Part 2: Lithium Systems</i>
UL 2271, 3 rd Edition	<i>Batteries for Light Electric Vehicle (LEV) Applications</i>

Standard(s) Update

The voluntary standards were not updated during the reporting period.

Relevant Rule

N/A

Staff is developing a draft NPR for *Electrical Systems for Micromobility Products* for Commission consideration.

Activities Summary

Staff continues to work with NEMA and ULSE on improving the overall safety of the battery powered products with primary focus on e-mobility devices, including e-bikes, and their battery chargers. During the reporting period, staff participated in multiple meetings on battery safety. Additionally, staff submitted comments on two standard proposals.

Meeting(s)

Staff participated in ANSI C18 meetings to discuss fire-related battery issues and the draft NEMA *Recommended Practices Guide for Lithium Ion Cells and Batteries*, which was registered with ANSI as a Technical Report

(TR) on April 3, 2020, and is being developed in accordance with the Procedures for the Registration of Technical Reports with ANSI.

Staff participated in TC 9540/UL 9540A meetings hosted by ULSE to discuss fire-related system, module, and battery pack testing and other standards related technical items.

Staff continued engagement with activities to transition OOI 2056 to a binational standard, participating in meetings to review comments on the proposed standard. Staff attended multiple meetings on UL 9540, *Energy Storage Systems and Equipment*.

<i>Communication(s)</i>	Date	Type	Summary
	01/14/2024	Letter	Staff provided comment on the proposed changes for ANSI/CAN/UL 2272:2016, Standard for Electrical Systems for Personal E-Mobility Devices.

<i>Ballot(s)</i>	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	October 2023	UL 2056	The ballot proposed the first draft of the standard. The TC was still working through comments at the end of the reporting period.
	January 2024	UL 2272	The ballot proposed changes to the battery pack, charger, and other requirements. All the proposals were adopted into the Second Edition, which had not yet been published at the end of the reporting period.

Next Action Staff will participate in ULSE meetings, when scheduled. Staff will participate in activities to transition OOI 2056 to potentially a trinational standard. Staff will participate in the e-mobility device and e-bike working group to improve battery safety in those relevant standards. Staff will continue to collaborate on the NEMA Recommended Practices Guide for Lithium Ion Cells and Batteries. Staff intends to propose improvements to UL 2849 similar to the recent work for UL 2272.

Batteries, Ingestion (Button)

Purpose To work with the various SDOs to revise button and coin cell battery safety voluntary standards and end-product voluntary standards for products that use these button and coin cell batteries, to address accidental battery ingestions that can cause severe injury and death.

Staff Contact Taxier, Daniel

Voluntary Standard(s)

Designation and current version	Title
UL 4200A, 1 st Edition (2023)	<i>Standard for Safety for Products Incorporating Button Batteries or Coin Cell Batteries</i>
UL 60065, 8 th Edition	<i>Standard for Audio, Video, and Similar Electronic Apparatus—Safety Requirements</i>
ANSI C18.1M Part 2-2019	<i>American National Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard</i>
ANSI C18.2M Part 2-2021	<i>American National Standard for Portable Rechargeable Cells and Batteries—Safety Standard</i>
ANSI C18.3M Part 2-2021	<i>American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard</i>
ANSI C18.4M-2017	<i>American National Standard for Portable Cells and Batteries- Environmental</i>

Standard(s) Update

The voluntary standards were not updated during the reporting period.

Relevant Rule

On September 21, 2023, the Commission published and amended 16 CFR part 1263, *Safety Standard for Button Cell or Coin Batteries and Consumer Products Containing Such Batteries* [88 FR 65274 and 88 FR 65296], which incorporates by reference UL 4200A (published August 30, 2023) with an effective date of October 23, 2023 (enforcement discretion date through March 19, 2024) and establishes battery package labeling requirements with an effective date of September 21, 2024.

On January 29, 2024, the Commission published a NOA for a *Petition Requesting Rulemaking To Amend the Requirement for a “Keep Out of Reach” Icon on Button Cell or Coin Battery Packaging* [89 FR 5438] with comments due March 29, 2024. Docket No. CPSC-2024-0004.

At the end of the reporting period, staff was drafting an NPR for Commission consideration on requirements for securing button cell or coin cell batteries used in toys in 16 CFR part 1250.

Activities Summary

During the reporting period, staff participated in ANSI C18 and ASTM 15.22 meetings on battery accessibility.

Meeting(s)

Staff participated in a NEMA/ANSI C18 meetings and provided an update on Reese’s Law and the related CPSC rulemaking, recommending that stakeholders reach out to the CPSC Small Business Ombudsman for support.

Staff also participated in ASTM F15.22 meetings on battery requirements in ASTM F963 (see the entry for *Toys*).

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will continue participation in NEMA/ANSI C18 standards meetings and other related button and coin cell battery standards, including UL 4200A and ASTM F963, as needed. Staff will deliver an NPR briefing package for Commission consideration for battery requirements in toys.

Candles and Candle Accessories

Purpose To work with the ASTM F15.45 subcommittee on revising the voluntary standards to strengthen safety provisions addressing hazards associated with candles and candle accessories.

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2417-23	<i>Standard Specification for Fire Safety for Candles</i>
	ASTM F2601-18	<i>Standard Specification for Fire Safety for Candle Accessories</i>
	ASTM F2058-07 (2014)	<i>Standard Specification for Candle Fire Safety Labeling</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the ASTM F15.45 subcommittee on candle safety. During the reporting period, staff participated in task group meetings on data and recalls.

Meeting(s) Staff participated in quarterly incident data teleconferences, discussing recent candle-related recalls and incidents found on SaferProducts.gov and from other sources, such as Canada or Europe.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will continue to participate in subcommittee meetings, quarterly incident data teleconferences, and task group meetings, as scheduled.

Carbon Monoxide (CO) Alarms

Purpose To work with ULSE to ensure that the voluntary standard adequately addresses the safety hazards associated with CO alarms and effective notification of hazardous levels of CO.

Staff Contact Brookman, Matthew J.

Voluntary Standard(s)	Designation and current version	Title
	UL 2034, 4 th Edition	<i>Single and Multiple Station Carbon Monoxide Alarms</i>

Standard(s) Update The voluntary standard not up was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the technical committee to enhance the standard and maintain effective performance requirements for CO alarms. During the reporting period, staff wrote a letter in support of revision to UL 2034. Additionally, staff continued working with the contractor to complete the National Smoke and CO Alarm Survey. The survey collection has been completed. The analysis of the data and reporting will be finalized in 2024

Meeting(s) Voluntary standards meetings related to this topic did not take place during the reporting period.

Communication(s)	Date	Type	Summary
	1/18/2024	Letter	Staff provided support to the proposed marking changes for the fifth edition revision to the UL 2034 standard.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will continue to support the activities of the technical committee and further development of the standard. Staff plans to finalize the Smoke and CO Alarm survey report in 2024.

Clothing Storage Units Tip Over

Purpose To work with ASTM to revise the voluntary standards to strengthen their safety provisions addressing the hazards associated with furniture tip-over incidents.

Staff Contact Talcott, Kristen

Designation and current version	Title
ASTM F2057-23	<i>Standard Safety Specification for Clothing Storage Units</i>
ASTM F3096-23	<i>Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1261, *Safety Standard for Clothing Storage Units*

Activities Summary Staff continues to work with the ASTM F15.42 subcommittee on furniture safety, especially tip-over hazards. During the reporting period, staff participated in many subcommittee and task group meetings focused on anti-tip devices (tip restraints) and provided data to the subcommittee.

Meeting(s) Staff participated in multiple subcommittee and task group meetings related to the proposed changes to the ASTM F3096 standard. Meetings included ASTM F3096 static and dynamic and materials interaction task groups in addition to subcommittee meetings.

Communication(s)

Date	Type	Summary
1/19/2024	Data	Staff provided the material interaction task group with incident data on furniture tip overs.
3/1/2024	Data	Staff provided the task groups with seven IDIs related to anti-tip devices.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee and task group meetings.

Electric Heaters

Purpose To work with ULSE to address fire deaths caused by portable electric heaters.

Staff Contact Lee, Arthur

Voluntary Standard(s)	Designation and current version	Title
	UL 1278, 4 th Edition	<i>Standard for Movable and Wall- or Ceiling-Hung Electric Room Heaters</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with ULSE to improve the safety of electric heaters. During the reporting period, staff participated in regular working group meetings to address electric heater fire hazards. Staff serve as the Chair for this WG.

Meeting(s) Staff chaired several WG meetings and presented multiple recommendations for increasing the safety of portable electric heaters. The group met frequently to develop or refine performance requirements such as tip over, internal and power cord connections, and material usage.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action CPSC staff will continue to chair and participate in working group meetings, as scheduled.

Fire Safety of Portable Fuel Containers and Gasoline Cans

Purpose To work with ASTM and ULSE to improve or develop fire safety requirements for flame mitigation devices and other fire safety features in various types of portable fuel containers, such as gasoline containers

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title

ASTM F3429 / ASTM F3429M-24	<i>Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers</i>
ASTM F3326-21	<i>Standard Specification for Flame Mitigation Devices on Portable Fuel Containers</i>
ASTM F839-15	<i>Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use</i>
ANSI/CAN/UL/ULC 30:2022	<i>Standard for Safety Metallic and Nonmetallic Safety Cans for Flammable and Combustible Liquids</i>
NFPA 30, 2021 Edition	<i>Flammable and Combustible Liquids Code</i>

Standard(s) Update

On January 29, 2024, ASTM notified the Commission that it had updated ASTM F3429/ASTM F3429M, *Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers*. The revision adds a new retention test, modify requirements allowing different test gases in specific cases, clarifies certification of a “family of containers”, and updates some sample preparation and testing procedures.

Relevant Rule

16 CFR part 1461, *Portable Fuel Container Safety Act Regulation*

Staff drafted a briefing package for Commission consideration on the revision of the standard during the reporting period.

Activities Summary

During the reporting period, staff made recommendations to NFPA 30, *Storage and Warehousing of Containers*. Staff also drafted a briefing package for Commission consideration.

Meeting(s)

Voluntary standards meetings related to this topic did not take place during the reporting period.

Communication(s)

Date	Type	Summary
2/28/2024	Letter	Staff provided recommendations for adding requirements under the PFCSA of 2020 to NFPA 30.

Ballot(s)

There were no ballots during the reporting period.

Next Action

Staff will continue to work with the committee, subcommittees, and task groups, as scheduled.

Flammable Refrigerants

Purpose To work with the various ULSE and ASHRAE standards work groups to revise the voluntary standards associated with consumer products that utilize flammable refrigerants (also known and marketed as “low global warming potential refrigerants”).

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	UL 60335-2-40/CSA C22.2 No. 60335-2-40, 4 th Edition	<i>Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers</i>
	ASHRAE 15.2 – 2022	<i>Safety Standard for Refrigeration Systems in Residential Applications</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with ULSE/CSA and ASHRAE to improve the safety of flammable refrigerants. During the reporting period, staff participated in ULSE and ASHRAE meetings on flammable refrigerants.

Meeting(s) Staff participated in ASHRAE 15.2 and UL/CSA 60335-2-40 meetings reviewing potential changes and providing each committee with feedback on proposals.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in an ASHRAE 15.2 subcommittee and an UL/CSA 60335-2-40 working group meetings, as scheduled.

Flooring (Slips, Trips, and Falls)

Purpose To work with ASTM and NFSI on developing a new voluntary standard or revising the existing voluntary standard to reduce or prevent consumer slips, trips, and falls.

Staff Contact Gordon, Bradley

Voluntary Standard(s)

Designation and current version	Title
ASTM F2508-16e1	<i>Standard Practice for Validation, Calibration, and Certification of Walkway Tribometers Using Reference Surfaces</i>

Standard(s) Update

The voluntary standard was not updated during the reporting period.

Relevant Rule

On January 22, 2024, the Commission published a NOA for a *Petition Requesting Rulemaking To Mandate Testing and Labeling Regarding Slip Resistance of Flooring, Floor Coatings and Treatments, Floor Cleaning Agents, and Footwear* [89 FR 3914] with comments due April 22, 2024. Docket No. CPSC-2024-0003.

Activities Summary

Staff continues to work with ASTM F13.10 subcommittee to establish better characterization of trip, slip, and fall hazards associated with flooring. During the reporting period, staff attended a subcommittee meeting.

Meeting(s)

Staff attended a subcommittee meeting where the new designated representative was introduced.

Communication(s)

There were no formal communications during the reporting period.

Ballot(s)

There were no relevant ballots during the reporting period.

Next Action

Staff will participate in upcoming meetings, as scheduled.

Gas Appliances, CO Sensors (Gas Furnaces and Boilers)

Purpose

To work with technical committees on revising the voluntary standards to strengthen safety provisions addressing hazards associated with CO poisoning risks due to failure modes such as disconnected vents and partially blocked vents.

Staff Contact

Jordan, Ronald

Voluntary Standard(s)

Designation and current version	Title
ANSI Z21.47-2016/ CSA 2.3-2016	<i>Gas-Fired Central Furnaces</i>
ANSI Z21.13-2022/ CSA 4.9-2022	<i>Gas-Fired Low Pressure Steam and Hot Water Boilers</i>

ANSI Z21.86-2016/ CSA 2.32-2016	<i>Vented Gas-Fired Space Heating Appliances</i>
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Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule On October 25, 2023, the Commission published an NPR for a *Safety Standard for Residential Gas Furnaces and Boilers* [88 FR 73272]. The Commission hosted an opportunity for oral presentations on February 21, 2024 [89 FR 8583].

Activities Summary Staff continues to monitor the activities of the technical committee and subcommittees for any developments related to CO safety. During the reporting period, staff participated in CSA Z21 technical committee meetings. Additionally, staff began work on a draft NOA providing data relied on in the rulemaking, as well as a FR briefing package for Commission consideration.

Meeting(s) Staff participated in a CSA Z21/83 technical committee meeting on fuel-burning appliances and related accessories and a CSA Joint Technical Sub-Committee meeting on Standards for Gas-fired Central Furnaces to discuss changes to Z21.47 and brief the group on the NPR.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period

Next Action Staff will continue to engage with CSA and any other SDOs interested in gas appliance safety and CO sensors. Additionally, staff will work on a final rule for Commission consideration.

Gas Ranges

Purpose To work with the CSA TSC and other stakeholders to revise the voluntary standard to strengthen its provisions for safety.

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	CSA/ANSI Z21.1-2024/ CSA 1.1-2024	<i>Household Cooking Gas Appliances</i>

Standard(s) Update In February 2024, CSA published the revised version of ANSI/ CSA 1.1-2024, *Household Cooking Gas Appliances*. Revisions include requirements for smart-enabled gas ranges.

Relevant Rule	N/A
Activities Summary	During the reporting period, staff participated in CSA TSC meetings, which resulted in a new edition to ANSI Z21.1. Staff also participated in TSC meetings on closed loop cooking. Staff is also working with various industry, government, and advocacy stakeholders on reviewing IAQ data associated with gas ranges.
Meeting(s)	Staff participated in multiple meetings of the CSA TSC, where the TSC focused on resolving open issues in preparation for the balloting of the draft of the next edition of the standard.
Communication(s)	There were no formal communications during the reporting period.
Ballot(s)	There were no ballots during the reporting period.
Next Action	Staff will participate in the next CSA TSC meeting, scheduled for October 2024. Staff will also continue to participate with various industry, government, and advocacy stakeholders to review IAQ associated with gas ranges related to recommendations or proposals for voluntary standards.

Indoor Air Quality

Purpose To work with SDOs and other stakeholders to develop and maintain voluntary standards that address hazards associated with indoor air quality. ASTM D22.05's indoor air subcommittee creates and updates standards on indoor air and indoor environments related to many different sources (e.g., chemicals, materials, products used indoors).

Staff Contact Bevington, Charles

Voluntary Standard(s)	Designation and current version	Title
	ASTM D8142-17e1	<i>Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers</i>
	ASTM D8141-22	<i>Standard Guide for Selecting Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs) Emission Testing Methods to Determine Emission Parameters for Modeling of Indoor Environments</i>

ASTM D5438-23	<i>Standard Practice for Collection of Floor Dust for Chemical Analysis</i>
ASTM D8445-22a	<i>Standard Practice for Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-scale Ventilated Enclosure</i>
ASTM D6669-19	<i>Standard Practice for Selecting and Constructing Exposure Scenarios for Assessment of Exposures to Alkyd and Latex Interior Paints</i>
WK81752/ASTM D8560-24	<i>Standard Guide for Determination of Airborne PFAS in the Indoor Air Environment</i>
ASHRAE 62.2-2022	<i>Ventilation and Acceptable Indoor Air Quality in Residential Buildings</i>

**Standard(s)
Update**

In October 2023, ASTM published the revised standard ASTM D5438-23, *Standard Practice for Collection of Floor Dust for Chemical Analysis*. Updates to the standard included addition of new terms and definitions, addition of equations for converting loading to concentration, and minor updates to measurement protocol.

**Relevant
Rule**

N/A

**Activities
Summary**

Staff continues to work with the ASTM D22.05 subcommittee on standards related to measuring and modeling chemicals in the indoor environment. During the reporting period, staff participated in ASTM D22.05, ASTM F15.81, and CSA Z21.1 WG3 meetings. Staff co-chaired a two-day workshop with ASTM for on per- and polyfluoroalkyl substances (PFAS). Staff contributed informally to the guide for determination of Airborne PFAS in Indoor Air Environment. Staff wrote a letter providing feedback on a recent draft of a guide under development: Standard Guide for analytical methods for per and polyfluorinated (PFAS) in consumer products.

Meeting(s)

Staff participated in an ASTM D22.05 subcommittee meeting where ballot results for recent standards were discussed. Staff also chaired a task group meeting under D22.05 and presented the status of the task group for a guide entitled “Defining and categorizing modeling approaches to support source characterization for indoor exposure assessment of consumer product.” And provided a status update of completed and publicly available contractual work to develop a CPSC report which can be

used by the task group as a resource when generating working drafts of the guide.

Staff participated in CSA Z21.1 WG3 meetings on indoor air quality related to gas stoves.

Staff co-chaired a two-day workshop with ASTM for 19 presentations covering sources, sampling and standards development of PFAS from various atmospheres, including indoor air, outdoor air, workplace air, and air sampled from chambers during product testing. Staff participated in meetings under ASTM F15.81 related to PFAS standards under development.

Communication(s) There were no formal communications during the reporting period.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	February 2024	WK 81752	Ballot D22(24-01), item 5, for a New Standard Guide for Determination of Airborne PFAS in the Indoor Air Environment. The ballot passed.

Next Action Staff will continue to participate in ASTM and ASHRAE meetings to develop and review standards related to IAQ and consumer products.

Lighters

Purpose To work with ASTM on revising or developing voluntary standards to strengthen provisions addressing hazards associated with lighters.

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	ASTM F400-20	<i>Standard Consumer Safety Specification for Lighters</i>
	ASTM F2201-20	<i>Standard Consumer Safety Specification for Utility Lighters</i>
	ASTM WK	Potential new standard for rechargeable utility lighters

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant 16 CFR part 1210, *Safety Standard for Cigarette Lighters*

Rule	16 CFR part 1212, <i>Safety Standard for Multi-purpose Lighters</i>
Activities Summary	Staff continues to work with the ASTM F15.02 subcommittee on lighter safety issues. During the reporting period, staff participated in several lighters task group meetings.
Meeting(s)	Staff participated in task group meetings to develop a new proposed standard for battery-powered utility lighters, discussing possible new requirements for torch-style utility lighters in F2201.
Communication(s)	There were no formal communications during the reporting period.
Ballot(s)	There were no ballots during the reporting period.
Next Action	Staff will participate in upcoming subcommittee and monthly task group meetings, as scheduled.

Liquid Laundry Packets

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing hazards associated with liquid laundry detergent packets.

Staff Contact Hurley, Jill

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3159-15(2022)	<i>Standard Safety Specification for Liquid Laundry Packets</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the ASTM F15.71 subcommittee on liquid laundry packet safety issues. During the reporting period, staff participated in two subcommittee meetings.

Meeting(s) Staff participated in subcommittee meetings, discussing data related to children and dermal and ocular injuries associated with use of the products.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee and task group meetings, as scheduled.

LP Gas Appliances

Purpose To work with CSA, NFPA, and other stakeholders to revise the voluntary standards to strengthen safety provisions and to ensure that the voluntary standards address hazards associated with LP-gas appliances, such as gas grills and fire pits.

Staff Contact Kim, Yeon Seok

Voluntary Standard(s)	Designation and current version	Title
	ANSI Z21.97-2017 (R2022)/ CSA 2.41-2017 (R2022)	<i>Outdoor Decorative Gas Appliances</i>
	CSA/ANSI Z21.58-22 /CSA 1.6-2022	<i>Outdoor Cooking Gas Appliances</i>
	ANSI Z21.89-2017 / CSA 1.18-2017	<i>Outdoor Specialty Gas Cooking Appliances</i>
	NFPA 58, 2024 Edition	<i>Liquefied Petroleum Gas Code</i>

Standard(s) Update In October 2023, NFPA published NFPA 58 (2024), *Liquefied Petroleum Gas Code*.

Relevant Rule N/A

Activities Summary During the reporting period, staff attended several technical subcommittee meetings.

Meeting(s) Staff participated in TSC meetings for outdoor cooking and illuminating devices and decorative gas appliances. Additionally, staff is participating in task groups for smart enabled technology for these products.

Communication(s) There were no formal communications during the reporting period

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming CSA TSC meetings, when scheduled.

Market Umbrellas/Beach Umbrellas

Purpose To work with ASTM to develop voluntary standards to address hazards associated with market (including patio) umbrellas (MU) and beach umbrellas (BU).

Staff Contact Newens, Andrew

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3512-21	<i>Standard Test Method for Evaluating Wind Safety and Durability of Market Umbrellas</i>
	ASTM WK 81182	Potential new standard for evaluating wind safety and stability of beach umbrellas

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the MU Subcommittee and BU Task Group on improving safety for market and beach umbrellas. During the reporting period, staff participated in a subcommittee and task group meetings and provided incident data to the subcommittee.

Meeting(s) Staff participated in subcommittee and task group meetings, mostly focused on developing and working through the ballot.

Communication(s)	Date	Type	Summary
	2/20/2024	Data	Staff provided the ASTM F15.79 subcommittee with an IDI related to a leg impalement.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	December 2023	N/A	Ballot for a new safety standard for beach umbrellas. The ballot item had some negatives that were resolved and had passed by the end of the reporting period.

Next Action Staff will participate in subcommittee and task group meetings to continue working towards development of a beach umbrella safety standard. Staff expects the standard to be published in April 2024.

Mowers

Purpose To work with OPEI to revise their voluntary standards to address hazards associated with walk-behind and riding power lawn mowers.

Staff Contact DeGrano, Frederick

Voluntary Standard(s)	Designation and current version	Title
	ANSI/OPEI B71.1-2017	<i>Standard for Consumer Turf Care Equipment – Pedestrian-Controlled Mower and Ride-On Mowers – Safety Specification</i>
	ANSI/OPEI 60335-2-107-2020	<i>Particular Requirements for Robotic Battery Powered Electrical Lawnmowers</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule 16 CFR part 1205, Safety Standard for Walk-Behind Power Lawn Mowers

Activities Summary Staff continues to work with the OPEI B71.1 committee on rollover and runover/backover hazards relating to residential riding lawn mowers. During the reporting period, staff provided incident data and photos to OPEI and participated in meetings for riding lawn mowers. Contract work with SEA Limited on riding mower rollover testing concluded on 12/31/23 and a draft final report was provided for review and clearance.

Meeting(s) Staff participated in a riding lawnmower meeting to discuss incident data, hazard patterns, and technologies that may potentially be implemented to prevent runovers and backovers.

Communication(s)	Date	Type	Summary
	11/28/2023	Data	Staff provided the OPEI with mower runover and backover incident data for the period 2008-2022 and a presentation summarizing the data.
	11/30/2023	Data	Staff provided OPEI with IDIs and a summary spreadsheet for riding lawn mower incidents.
	12/1/2023	Data	Staff provided OPEI a summary of research conducted by CPSC staff, contractors, and academia for methods to address riding mower runovers.
	12/4/2023	Data	Staff provided OPEI with incident photos for riding lawn mowers.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will meet with the OPEI B71.1 committee, as scheduled.

Portable Generators

Purpose To work with ULSE and PGMA to revise the voluntary standards to strengthen safety provisions addressing hazards associated with portable generator CO deaths and injuries.

Staff Contact Buyer, Janet

Designation and current version	Title
ANSI/PGMA G300-2023	<i>Safety and Performance of Portable Generators</i>
UL 2201, 2 nd Edition	<i>Carbon Monoxide (CO) Emission Rate of Portable Generators</i>

Standard(s) Update In December 2023, PGMA published a revised version of ANSI/PGMA G300, designated ANSI/PGMA G300-2023. Revisions included a lower instantaneous CO shutoff threshold and added natural gas-fueled portable generators to the scope.

Relevant Rule On April 20, 2023, the Commission published a Supplemental NPR (SNPR) for a *Safety Standard for Portable Generators* [88 FR 24346].

Activities Summary Staff continues to work with ULSE and PGMA on CO hazard mitigation requirements in UL 2201 and PGMA G300. During the reporting period, staff made recommendations to PGMA for G300-2023 to address fuel leaks in generators, which present fire and burn hazards.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Date	Type	Summary
12/13/2023	Letter	Staff recommended PGMA revise G300-2023 to address portable generators fuel leaks.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff is awaiting PGMA's technical committee to develop proposed language for revisions to G300-2023 based on staff's recommendations and for PGMA to form a canvass committee to review, comment, and cast ballots on those revisions. Staff will participate in any upcoming meetings and share data, as

needed. Staff will continue work on a NOA to publish data relied on in the rulemaking, as well as a final rule briefing package for Commission consideration.

Pressure Cookers

Purpose To work with ULSE to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with pressure cookers.

Staff Contact Snyder, Duncan Scott

Voluntary Standard(s)	Designation and current version	Title
	UL 136, 8th Edition	<i>Standard for Pressure Cookers</i>
	UL 1026, 6 th Edition	<i>Standard for Safety for Electric Household Cooking and Food Serving Appliances</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff worked actively to initiate work with stakeholders to begin addressing hazards raised by staff related to pressure cookers.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action At the end of the reporting period, staff anticipated that the UL 1026 STP will propose new requirements for electric pressure cookers by the end of the calendar year.

Recliners

Purpose To work with ASTM to address entrapment and crushing hazards associated with home recliners.

Staff Contact Nesteruk, Hope

Voluntary Standard(s)	Designation and current version	Title
	WK87355	A new safety standard for recliners

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR Part 1640, *Standard for the Flammability of Upholstered Furniture*

Activities Summary Staff will work with ASTM to develop standards to address mechanical hazards related to recliners. During the reporting period, staff participated in a subcommittee meeting and shared data with the subcommittee.

Meeting(s) Staff participated in an ASTM 15.42 subcommittee meeting where the EU requirement, motor force requirements, and lifting and lowering speeds were discussed.

Communication(s)	Date	Type	Summary
	11/22/2023	Data	Staff provided the subcommittee with motion furniture incident data.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will continue to participate in subcommittee and task group meetings, when scheduled.

Smoke Alarms

Purpose To work with ULSE, NFPA, and other stakeholders on potential revisions to voluntary standards and codes to strengthen safety provisions addressing the use of smoke alarms to mitigate hazards.

Staff Contact Lee, Arthur

Voluntary Standard(s)	Designation and current version	Title
	UL 217, 9th Edition	<i>Standard for Single and Multiple Station Smoke Alarms</i>
	NFPA 72, 2022 Edition	<i>National Fire Alarm and Signaling Code</i> ®

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant N/A

Rule Activities Summary Staff continues to work with ULSE and NFPA to improve efficacy of smoke alarms. The National Smoke and CO Alarm Survey collection has been completed. The analysis of the data and reporting will be finalized in 2024.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue participating in the update of NFPA 72 for the 2025 edition. Staff plans to finalize the Smoke and CO Alarm survey report in 2024.

Table Saws

Purpose To work with ULSE on revising the voluntary standard to strengthen its safety provisions addressing hazards associated with blade-contact injuries from table saws.

Staff Contact Paul, Caroleene

Voluntary Standard(s)	Designation and current version	Title
	UL 62841-3-1, 1st Edition	<i>Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 2-1: Particular Requirements for Transportable Table Saws</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule On November 1, 2023, the Commission published a supplemental NPR, *Safety Standard Addressing Blade-Contact Injuries on Table Saws* [88 FR 74909]. Additionally, the Commission held a hearing for oral comments related to the SNPR on February 28, 2024 [88 FR 85861].

Activities Summary Staff continues to work with ULSE to improve the safety of table saws.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue to monitor incident data and recommend safety improvements. Staff expects to deliver a NOA to publish data relevant to the rulemaking and continue working to develop a final rule package for Commission consideration.

Torch Fuel and Lamp Fuel

Purpose To work with ASTM on the development of voluntary standards addressing the hazards associated with the color and design of torch and lamp fuel packaging, the color and odor of torch and lamp fuel, and the use and design of devices principally intended to house torch and lamp fuel.

Staff Contact White, Sharon

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3304-22	<i>Standard Specification for Lamp Fuel and Torch Fuel Packaging</i>
	WK 83678	Potential New Standard for Lamp, Torch and Candle Devices

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule Petition PP 11-1 requesting rulemaking for non-see-through packaging for torch fuel and lamp fuel. The Commission directed staff to work with a standards organization.

Activities Summary Staff continues to work with the ASTM F15.72 subcommittee to improve the safety of lamp and torch fuel. During the reporting period, staff participated in subcommittee and task group meetings to address the hazards associated with the use and design of devices principally intended to house torch and lamp fuel.

Meeting(s) Staff participated in subcommittee and task group meetings to develop a new standard to address the hazards associated with the use and design of devices intended to house torch and lamp fuel. Topics include oil lamps, torches, and oil candles and performance and test requirements associated with each.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff plans to attend upcoming task group meetings, when scheduled.

Washing Machines

Purpose To work with ULSE to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with an unbalanced load condition of top-loading washing machines.

Staff Contact Kim, Yeon Seok

Voluntary Standard(s)	Designation and current version	Title
	UL 2157, 4th Edition	<i>Electric Clothes Washing Machines and Extractors</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary During the reporting period, staff participated in a UL 2157 meeting.

Meeting(s) Staff attended a UL 2157 STP meeting and discussed draft changes on balance conditions, activation methods, and other safety issues.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff plans to attend upcoming task group meetings, when scheduled.

Window Coverings

Purpose To work with WCMA to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with window covering cords.

Staff Contact Balci-Sinha, Rana

Voluntary Standard(s)	Designation and current version	Title

ANSI/WCMA A100.1-2022	<i>Standard for Safety of Corded Window Covering Products</i>
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**Standard(s)
Update**

The voluntary standard was not updated during the reporting period.

**Relevant
Rule**

On November 28, 2022, the Commission published the final rule 16 CFR part 1120, *Substantial Product Hazard List: Window Covering Cords* [87 FR 72873], which addresses hazardous operating cords on stock window coverings, the presence of hazardous inner cords on stock and custom window coverings, and the absence of a manufacturer label on stock and custom window coverings with an effective date of December 28, 2022. Also on November 28, the final rule for 16 CFR part 1260, *Safety Standard for Operating Cords on Custom Window Coverings*, was published in the Federal Register (87 FR 73144) with an effective date of May 30, 2023.

On September 12, 2023, United States Court of Appeals for the District of Columbia Circuit vacated the *Safety Standard for Operating Cords on Custom Window Coverings* final rule and remanded to the Commission for further proceedings.

Staff began developing a draft NPR in response to the Court’s findings for Commission consideration.

**Activities
Summary**

Staff continues to work with WCMA on window covering safety issues. During the reporting period, staff participated in meetings with WCMA and provided an incident data spreadsheet associated with corded window coverings.

Meeting(s)

Staff participated in three meetings with WCMA and other stakeholders. Staff attended a virtual meeting, in which WCMA representatives stated that the 2022 ANSI standard is a major step forward. Additionally, CPSC staff participated in an in-person meeting to demonstrate continuous cord loop systems and other innovations, such as a cord retractor device and a new tension device that meet the 2022 standard. Discussions focused on stroke length for cord retractor devices, tension devices that cannot be easily removed, the possibility that the consumer ordering a replacement chain without a tension device, rigid cord shrouds, vertical blinds, and requesting incident data from CPSC so that all stakeholders use the same set of data. On January 22, 2024, another meeting was held at CPSC National Product Testing and Evaluation Center to discuss the potential for revisions to the ANSI/WCMA–2022 voluntary standard that would address CPSC staff’s concerns about strangulation hazards to children from exposed cords. The WCMA representatives requested additional incident

information relating to CPSC staff's identification of a newly identified risk of vinyl blind slats breaking to expose inner cords.

<i>Communication(s)</i>	Date	Type	Summary
	12/23/2023	Data	Staff provided the subcommittee with incident data.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming committee meetings, when scheduled. Staff will prepare a rulemaking proposal for Commission consideration.

Recreation

Amusement Rides, Trampoline Parks, and Adventure Attractions

Purpose To work with ASTM on revising their voluntary standards to strengthen safety provisions addressing hazards associated with amusement rides, trampoline parks, and adventure attractions.

Staff Contact Caton, Tom

Voluntary Standard(s)	Designation and current version	Title
	ASTM F747-22	<i>Standard Terminology Relating to Amusement Rides and Devices</i>
	ASTM F770-23	<i>Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices</i>
	ASTM F1193-23	<i>Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices</i>
	ASTM F2137-19	<i>Practice for Measuring the Dynamic Characteristics of Amusement Rides</i>
	ASTM F2291-23, -23b	<i>Standard Practice for Design of Amusement Rides and Devices</i>
	ASTM F2970-22	<i>Standard Practice for Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts</i>
	ASTM F2974-22	<i>Standard Practice for Auditing Amusement Rides and Devices</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continued working with ASTM F24 to improve safety standards for amusement rides, trampoline parks, and adventure attractions within CPSC’s jurisdiction. During the reporting period, staff attended data task group meeting for ASTM F24.24 and F24.40 on VR/AR used in amusement rides.

Meeting(s) Staff participated in a joint task group with ASTM F24.24 and F24.40 to discuss the use of VR/AR accessories used in amusement rides. Staff made recommendations on aligning with UL 8400 where feasible, proper cleaning, and particular hazards of cleanliness for young children.

Communication(s) There were no formal communications during the reporting period.

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2023	ASTM F2291	Ballot F24(23-06), items 7-12, propose multiple updates across the standard. The ballot was still open at the end of the reporting period.
October 2023	ASTM F2970	Ballot F24(23-06), items 13-16, propose multiple updates across the standard. The ballot was still open at the end of the reporting period.
November 2023	ASTM F2291	Ballot F24(23-07), items 3 and 6, proposed to clarify requirements, add sustained acceleration limits in x, y, and z
January 2024	ASTM F770	Ballot F24(23-09), item 4, proposed to enhance training documentation and comprehension
January 2024	ASTM F1193	Ballot F24(23-09), items 1-3, proposed for producing or sourcing replacement parts
January 2024	ASTM F2970	Ballot F24(23-09), item 16, proposed “characteristics of trampoline bed construction, dimensions, and suspension properties”
January 2024	ASTM F2291	Ballot F24.24(23-02), item 1, proposed “add language for replacement parts”

February 2024	ASTM F2291	Ballot F24(24-02), items 2-8, proposed to remove non- language mandatory about fasteners
February 2024	ASTM F747	Ballot F24(24-02), item 1, proposed to add an Appendix for a terminology flowchart for should or should not a term be defined in the standard
February 2024	ASTM F2974	Ballot F24(24-02), items 9-11, proposed to revise F2974-22 so other applicable ASTM F24 standards are referenced
April 2024	ASTM F0770	Ballot F24 (24.04), item 2, revision to add modification program.
March 2024	ASTM 3559	Ballot F24(24-03), items 2-3, proposed to supplement current language for seasonal/planned shutdown and to allow the owner/operator to find the best source of support. The item was still open at the end of the reporting period.
April 2024	ASTM F747	Ballot F24(24-03), item 1, proposed to remove “user” because “user” is easily defined by the Merriam-Webster definition. The ballot was still open at the end of the reporting period.
April 2024	ASTM F1193	Ballot F24(24-03), items 4-5, proposed to provide additional information on what should be considered “Off-The-Shelf” components or parts and to remove improperly referenced and not required domestic standards. The ballot was still open at the end of the reporting period.
April 2024	ASTM 2291	Ballot F24(24-03), items 6-8, proposed to change numbering, to harmonize ASTM standard with EN standard for common cause faults to make it an integral part of ride analysis, and to clarify conduct of analysis to determine the opening between the walkway and the track in patron accessible area so that designers of the fall protection system is aware of increased risk to smaller patrons. The ballot was still open at the end of the reporting period.

April 2024	ASTM 2974	Ballot F24(24-03), item 10 proposed to revise the standard so other applicable ASTM F24 standards are referenced.
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Next Action Staff will participate in upcoming subcommittee meetings, scheduled for May 2024.

ATVs (All-Terrain Vehicles)

Purpose To work with SVIA to revise the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels to reduce fire, stability, and occupant protection hazards associated with ATVs.

**Staff Contact
Voluntary
Standard(s)**

Lim, Han

Designation and current version	Title
ANSI/SVIA 1-2023	American National Standard for Four Wheel All-Terrain Vehicles (ATVs)

**Standard(s)
Update** The voluntary standard was not updated during the reporting period.

**Relevant
Rule**

16 CFR part 1420, *Standard for All-Terrain Vehicles*

On January 23, 2024, the Commission published an FR to incorporate the 2023 version of ANSI/SVIA 1 into the rule [89 FR 4188] with an effective date of January 1, 2025. The 2023 edition of the standard includes hot surface and fuel system requirements to mitigate the risk of fire and burn hazards.

On May 11, 2021, the Commission published an ANPR *Off-Highway Vehicle (OHV) Fire and Debris-Penetration Hazards; Advance Notice of Proposed Rulemaking; Request for Comments and Information* (86 FR 25817) to address the risk of injury from ATV, ROV and UTV fires and debris-penetration hazards associated with ROVs and UTVs.

**Activities
Summary**

Staff continues to work with SVIA to develop possible performance standard requirements to address fire, tip-over, and collision hazards. During the reporting period, CPSC staff participated in a voluntary standards meeting with members of the SAE J350 committee.

As part of the ongoing activities to study ATV stability and collision mitigation, two contractor reports were published on the CPSC website during the reporting period: "Review of Automotive Safety Technologies

Applicable to All-Terrain Vehicles (ATVs),” which examined collision mitigation technologies that may be applicable to ATVs, and “Development of Enhanced Proof-of-Concept (POC) Electronic Stability Control (ESC) System for ATV Stability,” which provided a test report on two ATVs equipped with instability detection and throttle/braking controls to avert lateral rollovers.

Meeting(s) CPSC staff participated in voluntary standards meetings with members of the SAE J350 committee. The Forest Service regulates spark arresters to mitigate the risk of forest fires, via the FS 5100 standard and requested that staff participate. The spark arrester test procedure of J350 is referenced in the FS 5100 standard. CPSC staff pointed out relevant standards for spark arrester compliance for all-terrain vehicles (ATVs), recreational off-highway vehicles (ROVs), and utility task/terrain vehicles (UTVs).

Communication(s)	Date	Type	Summary
	March 18, 2024	Email	Staff notified SVIA of the availability of two research reports on ATVs posted to the CPSC website.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue collaborating with SVIA to address fire, collision and stability hazards associated with ATVs.

Bicycles

Purpose To work with ASTM to develop new or revised ASTM voluntary standards to reduce or eliminate hazards associated with bicycles and bicycle components.

Staff Contact Mella, Lawrence

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2793-14(2023)	<i>Standard Specification for Bicycle Grips</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1512 *Requirements for Bicycles*

On March 14, 2024, the Commission published an ANPR for Electric Bicycles [89 FR 18861].

Activities Summary

Staff continues to work with the subcommittee on issues related to bicycles. During the reporting period, staff participated in a subcommittee meeting and provided feedback on a ballot item.

Meeting(s)

Staff attended the ASTM F08.10 Bicycles subcommittee meetings, where a negative on the children’s bicycle handlebars ballot was discussed.

Communication(s)

Date	Type	Summary
October 20, 2023	Letter	Staff provided supportive comments for ASTM Ballot F08 (23-04) item 2.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2023	ASTM F2793	Ballot F08(23-04), item 2, proposed to add end cap requirement, and to rotate the test fixture 90 degrees between each impact.
May 2024	ASTM F2793	Ballot F08(24-01), item 1, proposed to correct grip end hardness requirement from Shore hardness A to D. There were no negatives or comments.

Next Action

Staff will participate in upcoming subcommittee meetings, as scheduled. Staff also plans to publish a report reviewing ASTM F2793 and 16 CFR 1512 bicycle standards.

Fireworks

Purpose

To work with AFSL and APA on revising the voluntary standards to strengthen safety provisions addressing hazards associated with consumer fireworks.

Staff Contact

Verdino, Priscilla

Voluntary Standard(s)

Designation and current version	Title
APA 87-1A, 2018 Version	<i>Standard for Construction, Classification, Approval, and Transportation of Consumer Fireworks</i>
AFSL 101 – 115, February 2022	<i>AFSL Standards for Consumer Fireworks</i>

Standard(s) Update

The voluntary standards were not updated during the reporting period.

Relevant Rule

16 CFR § 1500.17, *Banned Hazardous Substances*
16 CFR part 1507, *Firework Devices*

Activities Summary Staff continued to work with APA and AFSL on fireworks issues. During the reporting period, staff attended an APA standards committee meeting to discuss proposed revisions to APA 87-1A and APA 87-1A(CHEM) and sent a letter commenting on proposed revisions to APA 87-1A.

Meeting(s) Staff participated in APA standards committee meetings for potential revisions to APA Standard 87-1A.

Communication(s)	Date	Type	Summary
	February 15, 2024	Letter	Staff provided comments on proposed revisions to APA 87-1A and 87-1A(CHEM).

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will participate in upcoming APA and AFSL standards committee meetings, as scheduled.

Magnet Sets

Purpose To work with ASTM to revise the voluntary standard to adequately address the hazard associated with ingestion of magnets from magnet sets.

Staff Contact Harsanyi, Stephen

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3458 – 21	<i>Standard Specification for Marketing, Packaging, and Labeling Adult Magnet Sets Containing Small, Loose, Powerful Magnets (with a Flux Index $\geq 50 \text{ kG}^2\text{mm}^2$)</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1262, *Safety Standard for Magnets*

Activities Summary Staff continued to work with ASTM F15.77 to improve the safety of magnet sets.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will work with the subcommittee on developing any future requirements in the standard.

Playground Equipment, Home

Purpose To work with ASTM to strengthen existing safety provisions and identify and address emerging hazards associated with home playground equipment.

Staff Contact Phillips, Khalisa

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1148-22	<i>Standard Consumer Safety Performance Specification for Home Playground Equipment</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with ASTM to improve home playground safety. During the reporting period, staff participated in subcommittee and task group meetings and provided the subcommittee with data.

Meeting(s) Staff participated in an ASTM F15.09 subcommittee meeting where staff gave an update on the CPSC's operating plan and reviewed data shared by the agency. Staff also participated in pictogram task group meetings to address strangulation on home playgrounds.

Communication(s)	Date	Type	Summary
	3/1/2024	Data	Staff provided incident data for playground strangulations.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in subcommittee and task group meetings, scheduled for May 2024.

Playground Equipment, Public

Purpose To work with ASTM to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with public playground equipment.

Staff Contact Newens, Andy

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1487-21	<i>Standard Consumer Safety Performance Specification for Public Playground Equipment</i>
	ASTM F2049-2011(2017)	<i>Safety Performance Specification for Fences/Barriers for Public, Commercial, and Multi-Family Residential Use Outdoor Play Areas</i>
	ASTM F2373-11(2017)	<i>Standard Consumer Safety Performance Specification for Public Use Play Equipment for Children 6 Months through 23 Months</i>
	ASTM F1918-21	<i>Standard Safety Performance Specification for Soft Contained Play Equipment</i>
	WK 87554	New Standard Guide for the Certification of Recreation Facility Installers

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with ASTM to improve public playground safety. During the reporting period, staff continued to work on updating the CPSC Public Playground handbook and participated in multiple task group and subcommittee meetings.

Meeting(s) Staff participated in an ASTM F14.10 Fencing Subcommittee meeting, where the subcommittee considered whether to renew F2049-11(2017) as a standard. Staff participated in an ASTM F15.29 subcommittee meeting that reviewed task group activity on fully enclosed towers and climbers, play mounds, small in-ground bouncers, the *Standard Guide for the Certification of Recreation Facility Installers*, and the F2373 WG. Staff also participated in task group meetings on play mounds and small in-ground bouncers.

Communication(s) There were no formal communications during the reporting period.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)

March 2024	WK 87554	Ballot F15(24-03), item 1, proposed the new Standard Guide for the Certification of Recreation Facility Installers. The item was unresolved at the end of the reporting period.
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Next Action Staff will participate in subcommittee meetings in May 2024. Staff plans to update the CPSC Public Playground Handbook in 2024.

Playground Surfacing

Purpose To work with ASTM to revise the voluntary standards to address the hazard patterns associated with playground surfacing.

Staff Contact Newens, Andy

Voluntary Standard(s)

Designation and current version	Title
ASTM F1292-22	<i>Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment</i>
ASTM F1951-21	<i>Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment</i>
ASTM F2075-20	<i>Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment</i>
ASTM F2479-17	<i>Standard Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing</i>
ASTM F2650-17e1	<i>Standard Terminology Relating to Impact Testing of Sports Surfaces and Equipment</i>
ASTM F3012-22	<i>Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface Under and Around Playground Equipment</i>
ASTM F2223-19a	<i>Standard Guide for ASTM Standards on Playground Surfacing</i>
ASTM F3313-20	<i>Standard Test Method for Determining Impact Attenuation of Playground Surfaces Within the Use Zone of Playground Equipment as Tested in the Field</i>
ASTM F3351-19e1	<i>Standard Test Method for Playground Surface Impact Testing in Laboratory at Specified Test Heights</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary During the reporting period, staff attended an ASTM F08.63 subcommittee meeting. Additionally, staff continues to work on updating the CPSC Public Playground Handbook, which references the listed voluntary standards.

Meeting(s) Staff participated in an ASTM F08.63 playground surfacing subcommittee meeting where ballot results were discussed, and additional standards were identified for review. Staff briefed the subcommittee on plans to update the *Handbook for Public Playground Safety*.

Communication(s) There were no formal communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2023	ASTM F2479	Ballot F08(23-05), items 1-5, proposed revisions to terminology, toxicity issues, maintenance provisions, repairs, and related materials. The item passed.

Next Action Staff plans to attend the next ASTM playground surfacing subcommittee meeting in May 2024 and plans to draft an update to the CPSC Public Playground Handbook in FY2024.

Pool, Portable Unprotected (Child Drowning)

Purpose To work with ASTM and PHTA (formerly APSP) to revise the voluntary standards to strengthen safety provisions addressing hazards associated with residential drowning in pool products.

Staff Contact Bathalon, Susan

Voluntary Standard(s)

Designation and current version	Title
ASTM F2666-16(2024)	<i>Standard Specification for Aboveground Portable Pools for Residential Use</i>
ANSI/PHTA/ICC-2	<i>American National Standard for Public Pool and Spa Operations and Maintenance</i>
ANSI/APSP/ICC-4- (R2022)	<i>American National Standard for Above-Ground/On-Ground Residential Pools</i>
ANSI/APSP/ICC-5 (R2022)	<i>American National Standard for Residential Inground Swimming Pools</i>

ASTM WK76767	Potential new standard for computerized vision for drowning detection in residential swimming pools
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Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with stakeholders to improve water safety. During the reporting period, staff participated in multiple meetings with PHTA, ASTM, and other stakeholders in the drowning prevention community and commented on a ballot.

Meeting(s) Staff participated in multiple PHTA meetings, including the Recreational Water & Air Quality Committee (RWAQC), PHTA-4, and Standard Consensus Committee. Additionally, staff participated in ASTM F15.60 subcommittee meetings for portable aboveground pools, where incident data, pool barriers, and pool ladders were discussed. Staff also participated in the task group for ASTM WK76767, a potential new standard for computerized vision for drowning detection in residential swimming pools.

Communication(s)

Date	Type	Summary
3/15/2024	Letter	Staff abstained with comment on the ASTM F15.49 ballot F15(24-03), item 2.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2023	ASTM WK76767	Ballot F15.49(23-01), item 1, proposed a potential new standard for computerized vision for drowning detection in residential swimming pools. The ballot received several negatives and was withdrawn from the ballot.
March 2024	ASTM WK76767	Ballot F15(24-03), item 2, proposed the new standard for computerized vision for drowning detection in residential swimming pools. The item received two negatives and was unresolved at the end of the reporting period.

Next Action Staff will participate in upcoming meetings and review upcoming ballots.

Recreational Off-Highway Vehicles (ROVs)

Purpose To work with ROHVA and OPEI to develop requirements to address fire hazards and debris penetration hazards in off-highway vehicles.

Staff Contact Lim, Han

Voluntary Standard(s)	Designation and current version	Title
	ANSI/ROHVA 1- 2023	<i>American National Standard for Recreational Off-Highway Vehicles</i>
	ANSI/OPEI B71.9- 2022	<i>American National Standard for Multipurpose Off-Highway Utility Vehicles</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule NPR Recreational Off-Highway Vehicles (ROVs) (79 FR 68964), November 19, 2014.

ANPR, Off-Highway Vehicle (OHV) Fire and Debris Penetration Hazards (86 FR 25817), May 11, 2021.

NPR, Off-Highway Vehicle (OHV) Debris Penetration Hazards (87 FR 43688), July 21, 2022.

The Commission published a Notice of Availability (NOA) and Request for Comment on CPSC contractor SEA Limited's report "Study of Debris Penetration of Recreational Off-Highway Vehicle (ROV) Proof-of-Concept (POC) Floorboard Guards" (87 FR 78037), December 21, 2022.

Activities Summary Staff continues to work with OPEI and ROHVA to develop possible performance standard requirements to address fire and debris penetration hazards in ROVs. During the reporting period, CPSC staff participated in a voluntary standards meeting with members of the SAE J350 committee.

Meeting(s) CPSC staff participated in voluntary standards meetings with members of the SAE J350 committee. The Forest Service regulates spark arresters to mitigate the risk of forest fires, via the FS 5100 standard and requested that staff participate. The spark arrester test procedure of J350 is referenced in the FS 5100 standard. CPSC staff pointed out relevant standards for spark arrester compliance for all-terrain vehicles (ATVs), recreational off-highway vehicles (ROVs), and utility task/terrain vehicles (UTVs).

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in standards meetings, as scheduled. Staff will continue development of a NOA of data related to rulemaking and a draft final rule for ROV/UTV Debris Penetration Hazards.

Self-Balancing Scooters and Light Electric Vehicles

Purpose To work with ASTM and ULSE to develop a new voluntary standard or revise the existing standards to strengthen the mechanical safety provisions addressing hazards associated with self-balancing scooters, hoverboards, electric-powered scooters and bikes, and other micromobility products for adults.

Staff Contact Mella, Lawrence

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2614-15	<i>Recreational Powered Scooters and Pocket Bikes</i>
	ASTM F2641-23	<i>Standard Consumer Safety Specification for Recreational Powered Scooters and Pocket Bikes</i>
	ASTM F2642-08 (2015)(Withdrawn 2023)	<i>Standard Consumer Safety Specification for Safety Instructions and Labeling for Recreational Powered Scooters and Pocket Bikes</i>
	ASTM WK57360	<i>Potential new voluntary standard for self-balancing scooters and hoverboards</i>
	ASTM WK70724	<i>Potential new voluntary standard for commercial electric-powered scooters for adults</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule On March 15, 2024, the Commission published *Electric Bicycles; Advance Notice of Proposed Rulemaking; Request for Comments and Information* [89 FR 18861] with comments closing May 14, 2024.

Activities Summary Staff continues to work with ASTM and ULSE on existing and new safety standards for mechanical hazards associated with micromobility products, such as hoverboards, e-bikes, and self-balancing scooters. During the reporting period, staff participated in multiple meetings for the ASTM F15.58 subcommittee and task groups and provided comments on a ballot.

Meeting(s) Staff participated in multiple ASTM F15.58 subcommittee and task group meetings on brakes, tires/operable terrain/suspension, auditory warnings, rideshare, the children’s e-scooter standard, and electrical requirements.

Communication(s)

Date	Type	Summary
12/7/2023	Letter	Staff provided comments on ASTM ballot F15(23-15), item 2.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2023	WK 70724	Ballot F15(23-15), item 2, proposed the New Standard Consumer Safety Specification for Commercial Electric-Powered Scooters for Adults. The item was removed from the ballot due to a persuasive negative.

Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meeting scheduled in November 2024.

Sports/Recreational Headgear Sensors/Helmet and Sensors

Purpose To work with ASTM to develop and revise helmet and headgear voluntary standards.

Staff Contact Ota, Greg

Voluntary Standard(s)

Designation and current version	Title
ASTM F1446-20	<i>Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear</i>
ASTM F1447-18	<i>Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating</i>
ASTM F2220-23	<i>Standard Specification for Headforms</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary During the reporting period, staff attended ASTM F08 and NOCSAE committee meetings. Staff reviewed ASTM and international standards and incident data related to helmets and submitted a letter to ASTM recommending revisions as a result.

Meeting(s) Staff attended F08 helmet subcommittee meetings to monitor the standards. Staff also attended NOCSAE committee meetings to monitor activity.

Communication(s)

Date	Type	Summary
3/14/2024	Letter	Staff provided recommendations to the ASTM F08.53 subcommittee on potential revisions to ASTM F1447-18.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff plans to attend the next ASTM subcommittee meetings, scheduled in November 2023.

Swimming Pools/Spas, Drain Entrapment

Purpose To work with PHTA (formerly APSP) to ensure that the incorporated voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing entrapment hazards associated with pool drain cover products intended for swimming pools, wading pools, spas, and hot tubs, as well as installation of those products in public pools.

Staff Contact Kempske, Rebekah

Voluntary Standard(s)

Designation and current version	Title
ANSI/APSP/ICC 16-2017	American National Standard for Suction Outlet Fitting Assemblies (SOFA) for Use in Pools, Spas, and Hot Tubs

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule 16 CFR part 1450, *Virginia Graeme Baker Pool and Spa Safety Act (VGBA)*

Activities Summary Staff continues to work with PHTA to improve pool and spa safety. During the reporting period, staff proposed revisions to ANSI/APSP/ICC 16-2017.

Meeting(s) Staff participated in meetings with the PHTA-16 Standard Writing Committee (SWC) to discuss updating the standard. In FY 2023, staff proposed nine change requests, which included topics in the design and testing sections of the standard, and the provisional amendment requirements to APSP-16, which expired March 19, 2023. Staff participated

in multiple task group meetings during the reporting period to discuss potential changes.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming PHTA meetings. Staff plans to make recommendations on a revision to the standard.

Swimming Pools/Spas, Vacuum Relief System

Purpose To work with PHTA (formally APSP) and ASTM to ensure the voluntary standards for secondary entrapment avoidance systems maintain the adequate backup safety levels, which are required in the federal mandatory standard, for entrapment hazards associated with pool drains in swimming pools, spas, and hot tubs.

Staff Contact Kempske, Rebekah

Voluntary Standard(s)	Designation and current version	Title
	ANSI/APSP/ICC-7-2020	<i>Suction Entrapment Avoidance</i>
	ASTM F2387-21	<i>Manufactured Safety Vacuum Release Systems (SVRS) for Swimming Pools, Spas and Hot Tubs</i>
	PHTA-17	Potential new voluntary standard for safety vacuum release systems, automatic pump shut-off systems, shut-off systems, and vacuum limiting systems for swimming pools, spas, wading pools, hot tubs, and catch pools

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with PHTA on the planned development of PHTA-17.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming PHTA meetings.

Tents

Purpose To work with ASTM on developing a voluntary standard to address the hazards associated with camping tent flammability.

Staff Contact Maling, Emily

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3431-21	<i>Standard Specification for Determining Flammability of Materials for Recreational Camping Tents and Warning Labels for Associated Hazards</i>

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with ASTM on developing performance requirements and test methods to evaluate the flammability of recreational camping tents. During the reporting period, staff participated in an ASTM F08.22 subcommittee meeting.

Meeting(s) Staff participated in an ASTM F08.22 subcommittee meeting during the reporting period, providing updates on the modeling of the tent data from the recent tests performed.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will attend subcommittee and task group meetings, as scheduled, and staff will support the development of a potential characterization test, with testing and data analysis.

Treadmills

Purpose To work with ASTM and ULSE to develop and revise treadmill voluntary standards.

Staff Contact DeGrano, Frederick

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2115-19	<i>Standard Specification for Motorized Treadmills</i>
	ASTM F1749-15(2020)	<i>Standard Specification for Fitness Equipment and Fitness Facility Safety Signage and Labels</i>
	ASTM F2276-10(2015)	<i>Standard Specification for Fitness Equipment</i>
	UL 1647, 6 th Edition	<i>Motor-Operated Massage And Exercise Machines</i>

Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rule N/A

Activities Summary Staff continues to work with the ASTM F08.30 subcommittee on fitness products develop requirements in ASTM F2115-19 to address hazards observed in incident data pertaining to treadmills, specifically entrapment of children and other objects underneath the rear roller on an operating treadmill. During the reporting period, staff participated in task group meetings and provided the subcommittee with recommendations on testing.

Meeting(s) Staff participated in task group meetings to discuss mechanical guards, rear roller movement, and testing probes. Staff also provided overall feedback on the draft ballot.

Communication(s)	Date	Type	Summary
	12/21/2023	Letter	Staff provided recommendations to the subcommittee on a finger probe for testing.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Codes, Analytical Methods, and Labeling

Building Codes

Purpose To work with various model building codes to ensure consumer safety considerations and referenced consumer products are included in the standards.

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	NFPA 30, 2021 Edition	Flammable and Combustible Liquid Code
	NFPA 58, 2024 Edition	Liquefied Petroleum Gas Code
	NFPA 70, 2023 Edition	<i>National Electrical Code</i> [®]
	NFPA 72, 2022 Edition	<i>National Fire Alarm Signaling Code</i> [®]
	2024 IFGC	<i>International Fuel Gas Code</i>

Standard(s) Update In October 2023, NFPA 58 (2024), *Liquefied Petroleum Gas Code*, was published. Revisions include consolidation of remote emergency shutdown requirements.

Relevant Rule N/A

Activities Summary During the reporting period, staff made recommendations to NFPA 30, *Storage and Warehousing of Containers*.

Meeting(s) Staff participated in several meetings of the ICC ad hoc committee to review code requirements for energy storage systems, including lithium-ion and non-lithium-ion batteries. Staff focused on any discussions related to code requirements that could affect micromobility devices or residential energy storage systems.

Communication(s)	Date	Type	Summary
	2/28/2024	Letter	Staff provided recommendations for adding requirements under the PFCSA of 2020 to NFPA 30.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in the IFGC code hearings in April 2024.

Chemical Test Methods

Purpose To work with ASTM to ensure that the listed chemical test methods referenced in various CPSC test procedures and requirements are adequately maintained.

Staff Contact Roemer, Matthew

Voluntary Standard(s)

Designation and current version	Title
ASTM E1645-21	<i>Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis</i>
ASTM F2617-15	<i>Standard Test Method for Identification and Quantification of Chromium, Bromine, Cadmium, Mercury, and Lead in Polymeric Material Using Energy Dispersive X-ray Spectrometry</i>
ASTM F2853-10(2015)	<i>Standard Test Method for Determination of Lead in Paint Layers and Similar Coatings or in Substrates and Homogenous Materials by Energy Dispersive X-Ray Fluorescence Spectrometry Using Multiple Monochromatic Excitation Beams</i>
ASTM E3193-21	<i>Standard Test Method for Measurement of Lead (Pb) in Dust by Wipe, Paint, and Soil by Flame Atomic Absorption Spectrophotometry (FAAS)</i>
ASTM E3203-21	<i>Standard Test Method for Determination of Lead in Dried Paint, Soil, and Wipe Samples by Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES)</i>
ASTM D7823-20	<i>Standard Test Method for Determination of Low-Level Phthalates in Poly (Vinyl Chloride) Plastics by Thermal Desorption—Gas Chromatography/Mass Spectrometry</i>
ASTM D7993-15(2019)	<i>Standard Guide for Analyzing Complex Phthalates</i>
ASTM D8133-23	<i>Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry</i>
WK 83978	<i>New Standard Guide for Selecting and Applying Analytical Methods to Evaluate PFAS in Consumer and Related Products</i>

Standard(s) Update

The voluntary standards were not updated during the reporting period.

Relevant Rule

N/A

Activities Summary

During the reporting period, staff continued working with the ASTM D20.70 subcommittee on analytical methods to review the status of several methods. Staff participated in an interlaboratory study (ILS) for ASTM

D8133-23 in FY23. The purpose of the ILS was to determine the Precision and Bias statement for ASTM D8133-23 (both Methods A and B). Both the data obtained and a draft P&B statement from the ILS were presented and reviewed on 4/10/24. Minor adjustments will be made to the draft P&B statement prior to balloting. Additionally, staff participated in several ASTM F15.81 meeting and provided comments on a ballot.

Meeting(s) Staff attended several ASTM D20.70 subcommittee meetings and task group meetings on Analytical Methods to discuss the findings from the ILS for ASTM D8133

Staff participated in multiple ASTM F15.81 meetings to continue development of a new PFAS guidance document.

Communication(s)

Date	Type	Summary
2/28/2024	Letter	Staff provided comments on ballot F15.81 (24-04).

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2024	ASTM E3203	Ballot ASTM D22(23-02) item 4 proposed a new Standard Guide for Selecting and Applying Analytical Methods to Evaluate PFAS in Consumer and Related Products. The item was still unresolved at the end of the reporting period.

Next Action Staff will participate in upcoming ASTM task group meetings or subcommittee meetings, when scheduled. The ASTM D20.70 subcommittee on analytical methods will meet in November 2024. Staff will participate in ASTM F15.81, when scheduled.

National Electrical Code

Purpose To work with the NFPA to revise the National Electrical Code (NEC), to strengthen its safety provisions addressing hazards associated with electrical fires, CO poisoning, and shock incidents associated with consumer products, such as household appliances, pools and spas, generators, electrical equipment, and wiring products.

Staff Contact Miller, Einstein

Voluntary Standard(s)

Designation and current version	Title
NFPA 70, 2023 Edition	<i>National Electrical Code</i> ®

Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rule N/A

Activities Summary During the reporting period, staff advocated for requirements for ground fault circuit interrupters (GFCI) and arc fault circuit interrupters (AFCI) to reduce shock and fire hazards and participated in meetings for the first draft of the 2026 NEC.

Meeting(s) Staff participated in several code making panel (CMP) task groups (TG) during the reporting period to review public inputs to the first draft of the 2026 NEC. Staff took part in a CMP 17 overall meeting where staff advocated for GFCI requirements for pool electric heaters, CMP 2 TG 1 and TG 2, Branch Circuits, CMP 17 TG 1, Appliances, CMP 17 TG 3, Swimming Pools, Fountains, and Similar Installations.

Staff also participated in a UL 101 meeting to address unwanted tripping of GFCIs.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no ballots during the reporting period.

Next Action Staff will continue to participate in the 2026 NEC development cycle and related task groups to address fire, shock, CO poisoning and other hazards.

Warning Signs and Labels (and Ad Hoc Language)

Purpose To work with SDOs to develop or enhance warnings, labels, and other written means not already covered by another tracked voluntary standard, to convey product safety information to consumers.

Staff Contact Smith, Tim

Voluntary Standard(s)	Designation and current version	Title
	ANSI Z535.7	Proposed new standard for Product Safety Information in Electronic Media

Standard(s) The voluntary standard was not updated during the reporting period.

Update

Relevant Rule N/A

Activities Summary Staff continues to work with NEMA and ASTM to enhance safety warnings for consumer products.

Meeting(s) No meetings related to relevant standards or topics took place during the reporting period.

Communication(s) There were no formal communications during the reporting period.

Ballot(s) There were no relevant ballots during the reporting period.

Next Action Staff will continue to participate in the ANSI/NEMA Z535 Committee and revision of ANSI/NEMA Z535.7 subcommittee meetings and will participate in the next ASTM Ad Hoc Language task group meeting, when scheduled.

Appendix: Organizational Abbreviations

The list below contains abbreviations for SDOs and other groups related to the standards that staff typically participate in. Some abbreviations below may not be used in the current VSTAR.

AATCC	American Association of Textile Chemists and Colorists
AFSL	The American Fireworks Standards Laboratory
AHAM	Association of Home Appliance Manufacturers
AHFA	American Home Furnishing Alliance
AHRI	Air Conditioning, Heating and Refrigeration Institute
ANSI	The American National Standards Institute
APA	American Pyrotechnics Association
APSP	The Association of Pool and Spa Professionals (now part of The Pool & Hot Tub Alliance, see PHTA)
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASTM	ASTM International
BIFMA	Business and Institutional Furniture Manufacturing Associations
CAN	Standards Council of Canada designation for a National Standard of Canada
CANENA	Council for Harmonization of Electrotechnical Standards of the Nations in the Americas
CSA	CSA Group
	TSC – Technical Subcommittee
	TC – Technical Committee
EN	European Standards
IAPMO	International Association of Plumbing and Mechanical Officials
ICC	International Code Council
IEC	International Electrotechnical Commission
IEEE	The Institute of Electrical and Electronics Engineers
ISO	International Organization for Standardization
	TAG – Technical Advisory Group
	TC – Technical Committee
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
	CMP – Code Making Panel
	NEC – National Electrical Code
	TIA – Technical Interim Agreement
NFSI	National Floor Safety Institute
NIST	National Institute of Standards and Technology
NOCSAE	National Operating Committee on Standards for Athletic Equipment
OPEI	Outdoor Power Equipment Institute
PGMA	Portable Generator Manufacturers Association
PHTA	Pool & Hot Tub Alliance
ROHVA	Recreational Off-Highway Vehicle Association
SAE	Society of Automotive Engineers
SVIA	Specialty Vehicle Institute of America

ULSE	UL Standards and Engagement (formerly Underwriters Laboratories Inc)
	STP – Standards Technical Panel
	ORD – Other Recognized Document (pertains to voluntary standards recognized in Canada)
ULC	ULSE operations in Canada (formerly Underwriters Laboratories of Canada)
WCMA	Window Covering Manufacturers Association