



Memorandum

DATE: June 14, 2023

To: The Commission
Alberta E. Mills, Secretary

THROUGH: Austin C. Schlick, General Counsel
Jason K. Levine, Executive Director

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

SUBJECT: Voluntary Standards Tracking and Access Fiscal Year 2023 Midyear
Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Fiscal Year 2023 (FY 2023) Midyear Voluntary Standards Tracking and Access Report (VSTAR), covering the period October 1, 2022 through March 31, 2023. If you have any questions, please contact Jacqueline Campbell at: jcampbell@cpsc.gov or VoluntaryStandards@cpsc.gov.



United States
Consumer Product Safety Commission

Memorandum



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Consumer Product Safety Commission

Voluntary Standards Tracking and Access Report

FY 2023 MIDYEAR REPORT

(October 1, 2022–March 31, 2023)

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

Table of Contents

Introduction	4
VSTAR Content and Organization	4
Updated Standards	6
Voting and Leadership Roles	8
FY 2022 Voluntary Standards Activities Summary	10
Children’s Products and Hazards	10
Durable Infant and Toddler Products.....	10
Other Children’s Products and Hazards	33
Emerging Technology.....	40
Home Products and Hazards.....	47
Recreation.....	75
Codes, Analytical Methods, and Labeling	94
Appendix: Organizational Abbreviations	100
Index of Entries	102

CPSC Voluntary Standards Activities:

October 1, 2022–March 31, 2023

Introduction

Voluntary standards play an important role at the CPSC. Under some CPSC statutes, if a relevant voluntary standard addresses the risk of injury that a consumer product presents, the Commission could issue a mandatory standard, but 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 regarding certain voluntary standards. For example, section 104 of the CPSIA 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 2023 (FY 2023) Midyear Report.

Voluntary standards activities are handled by various standards development 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, as outlined in the FY 2023 CPSC Operating Plan (Op Plan). The FY 2023 Op Plan lists 86 different products, product areas, or hazards for which staff plans 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 voluntary standards work that covers the 86 activity areas outlined in this report.

The product, product area, or hazards are organized into similar activities 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 designated representative, 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 Rulemaking:	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 21 revised or renewed voluntary standards that staff actively engaged in revising or developing, and that were published during the period October 1, 2022 to March 31, 2023. 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 FY 2023 fiscal year are shown in bold font in the applicable activity section.

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

October 1, 2022 - September 30, 2023

Standard	SDO	Date Published	DR	New, Revision, Renewal
ASTM D7860-14(2022) Standard Test Methods for Measurement of Torque Retention for Child Resistant and Non-Child Resistant Packages with Continuous Thread Closures Using Automated Torque Testing Equipment	ASTM	October 2022	Eilbert, M	Renewal

UL 2034 4th edition Single and Multiple Station Carbon Monoxide Alarms	UL	October 2022	Brookman, M.	Revision
UL 217 9th edition Standard for Single and Multiple Station Smoke Alarms	UL	October 2022	Lee, A.	Revision
ASTM F2906-22 Standard Consumer Safety Specification for Bedside Sleepers	ASTM	November 2022	Kish, C.	Revision
ASTM F406-22 - Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards	ASTM	November 2022	DeGrano, F.	Revision
ASTM D8141-22 - 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	ASTM	December 2022	Bevington, C.	Revision
ASTM F1292-22 - Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment	ASTM	December 2022	Lee, K.	Revision
UL/CSA 60335-2-40 4 th Ed Flammable Refrigerators	UL	December 2022	Ayers, S	Revision
ASTM E3025-22 Standard Guide for Tiered Approach to Detection and Characterization of Silver Nanomaterials in Textiles	ASTM	December 2022	Matheson, J.	Revision
ANSI/WCMA A100.1-2022, <i>Standard for Safety of Corded Window Covering Products</i>	WCMA	December 2022	Balci-Sinha, R.	Revision
ASTM F747-22 Standard Terminology Relating to Amusement Rides and Devices	ASTM	January 2023	Taxier, D.	Revision
ASTM F1004-23 Standard Consumer Safety Specification for	ASTM	January 2023	Torres, C.	Revision

Expansion Gates and Expandable Enclosures

ASTM F2906-23 Standard Consumer Safety Specification for Bedside Sleepers	ASTM	January 2023	Kish, C.	Revision
ASTM F2057-23 Standard Safety Specification for Clothing Storage Units	ASTM	February 2023	Talcott, K.	Revision
ASTM F1917-23 Standard Consumer Safety Specification for Infant Bedding and Related Accessories	ASTM	February 2023	Smith, T.	Revision
ASTM F2793-14(2023) Standard Specification for Bicycle Grips	ASTM	February 2023	Mella, L.	Renewal
UL 2201 2nd edition Carbon Monoxide (CO) Emission Rate of Portable Generators	UL	February 2023	Buyer, J.	Renewal
PHTA-2 American National Standard for Public Pool and Spa Operations and Maintenance	PHTA	February 2023	Bathalon, S.	Revision
OPEI B71.9 American National Standard for Multipurpose Off-Highway Utility Vehicles	OPEI	March 2023	Lim, H.	Revision
UL 4600 3rd edition Standard for Safety for the Evaluation of Autonomous Products	UL	March 2023	Lee, S.	Revision
ROHVA 1-2023 American National Standard for Recreational Off-Highway Vehicles	ROHVA	March 2023	Lim, H.	Revision
SVIA American National Standard for Four Wheel All-Terrain Vehicles (ATVs)	SVIA	March 2023	Lim, H.	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
Ayers, S.	April 2022*	Renewal	Leadership and Voting	ASTM F15.72, Flame Mitigation Devices on Disposable Fuel Containers*
Ayers, S.	April 2022*	Renewal	Leadership and Voting	ANSI/CSA Z21 Gas Ranges*
Smith, T.	April 2022*	New	Voting	ANSI Z535 Safety Colors and Signs*
Ayers, S.	April 2022*	Renewal	Voting	ASTM F15.10 Gasoline Containers*
Ayers, S.	April 2022*	New	Voting	UL 30 Safety Cans*ASTM F15.10 Gasoline Containers*
Ayers, S.	April 2022*	New	Voting	UL 30 Safety Cans*
Balci-Sinha, R.	June 2022*	New	Voting	ANSI/WCMA A100.1 Safety of Corded Window Covering Products
Bevington, C.	July 2022*	New	Leadership and Voting	ASTM IAQ Standard Guide
Kish, C.	November 2022	Renewal	Voting	ASTM F15.18 Bassinets
Kish, C.	November 2022	Renewal	Voting	ASTM F15.18 In-bed Sleepers
Kish, C.	November 2022	Renewal	Voting	ASTM F15.18 Bedside Sleepers
Buyer, J.	November 2022	Renewal	Voting	UL 2201 Generators
Harsanyi, S.	December 2022	Renewal	Voting	ASTM F3458 Magnets
Talcott, K.	December 2022	Renewal	Voting	ASTM F2057
Mordecai, B.	January 2023	New	Voting	ASTM F963 Toys

*Carryover from previous fiscal year.

FY 2022 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 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 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 the applicable mandatory children's product safety rule remains unchanged.

Bassinets/Cradles

Purpose To work with ASTM 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 Rulemaking 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.

Staff is developing for Commission consideration an NPR briefing package to update the standard.

Activities Summary Staff continues to work with the subcommittee on safe sleep issues for bassinets and cradles. During the reporting period, staff provided data on cantilever bassinets and in-bed sleepers, participated in task group

meetings on bassinet and cradle scope and performance requirements, and provided feedback on the agency’s position for improving safety for these products. Additionally, staff prepared a briefing package for Commission consideration on the revision to the standard published in ASTM 2194-22e1.

Meeting(s) Staff participated in an ASTM F15.18 subcommittee meeting to discuss Commission activity and task group updates.

Staff participated in task group meetings to discuss issues related to cantilevered and compact bassinets, discussing incident data, test procedures and requirements, and scope. One of the task group meetings was hosted at the CPSC National Product Testing and Evaluation Center.

Communication(s)	Date	Type	Summary
	10/6/2022	Letter	Staff notified ASTM that the Commission would be retaining the existing standard referenced in the CFR.

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

Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meeting scheduled in May 2023. Staff was preparing an NPR briefing package to update the standard for Commission consideration at the end of the reporting period.

Bedside Sleepers

Purpose To work with ASTM 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	Standard Consumer Safety Specification for Bedside Sleepers

Standard(s) Update On February 6, 2023, ASTM notified staff that it had published ASTM F2906-23, the latest revision to the *Standard Consumer Safety Specification for Bedside Sleepers*. This revision corrects an unintended exemption for certain bedside sleepers created in the 2022 update and

clarifies testing requirements. Staff was preparing a briefing package for Commission consideration at the end of the reporting period.

Relevant Rulemaking

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. During the reporting period, staff provided data on bedside sleepers and participated in a subcommittee meeting. Staff worked with the subcommittee to find balloted language that would not negatively impact safety.

Meeting(s)

Staff participated in a subcommittee meeting to review ballot results for the new language to address an unintended exemption.

Communication(s)

Date	Type	Summary
10/13/2022	Data	Staff provided the subcommittee with the incident data for bedside sleepers from 7/15/2018-7/20/2022.
11/21/2022	Data	Staff provided the subcommittee with updated incident data for bedside sleepers from 7/15/2018-7/20/2022.

Applicable Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2022	ASTM F2906	Ballot F15(22-19), item 1, proposed revised language for the rail adjacent to the adult bed. The item received a negative vote (later withdrawn) suggesting an explanatory figure. Staff voted affirmatively. The item was approved.

Next Action

Staff will participate in the next ASTM subcommittee meeting scheduled for May 2023. Staff will present a briefing package for Commission consideration to update the standard.

Booster Seats

Purpose

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

Staff Contact

Kish, Celestine

Voluntary Standard(s)

Designation and current version	Title

ASTM F2640-18	<i>Standard Consumer Safety Specification for Booster Seats</i>
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Standard(s) Update The voluntary standard was not updated during the reporting period.

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

Communication(s) There were no 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.

Carriages and Strollers

Purpose To work with ASTM 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 Rulemaking 16 CFR part 1227, *Safety Standard for Carriages and Strollers*

The mandatory standard was updated on November 18, 2021 [86 FR 64349] with an effective date of February 15, 2022.

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

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

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

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

Next Action Staff will participate in upcoming subcommittee meetings.

Changing Products

Purpose To work with ASTM 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 Rulemaking 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) Voluntary standards meetings related to this topic did not take place during the reporting period.

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

Ballot(s) There were no 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 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 Taxier, Daniel

Voluntary Standard(s)

Designation and current version	Title
ASTM F2613-22	<i>Standard Consumer Safety Specification for Children's Chairs and Stools</i>

Standard(s) Update

On August 22, 2022, ASTM notified staff that it had published ASTM F2613-22, the latest revision to the *Standard Consumer Safety Specification for Children's Chairs and Stools*. This revision removed children's step stools from the scope of the standard, added a head entrapment test, and updated references, figures, and definitions. The Commission determined that the voluntary standard did not improve safety and retained the existing reference in the rule.

Relevant Rulemaking

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 a subcommittee meeting, provided an annual data review, and provided a recommendation on changing the exemption for children's stools.

Meeting(s)

Staff participated in a subcommittee meeting where staff briefed the group on the Commission determination to retain the previous reference and provided a recommendation on exemption language.

Communication(s)

Date	Type	Summary
12/20/2022	Letter	Staff notified ASTM of the Commission's determination.
1/3/2023	Letter	Staff notified the subcommittee of the Commission's determination and provided a recommendation on exemption language.
1/24/2023	Data	Staff provided the subcommittee with a summary of the incident data for children's chairs and stools from 12/4/2021-12/5/2022.

Ballot(s)

Date	Type	Summary
March 2023	F2613	Ballot F15(23-04), item 1, proposed to remove the exemption for children's step stools. The item received five

		negative votes. The ballot item had not been resolved by the end of the reporting period.
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Next Action Staff will participate in upcoming subcommittee meetings in May 2023 and work with the subcommittee to establish safety improvements in the standard.

Commercial Cribs

Purpose To work with ASTM 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 Rulemaking 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) There were no communications during the reporting period.

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 to revise the voluntary standard to strengthen its safety provisions addressing hazards and form the basis of a federal standard intended to reduce 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 Rulemaking 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. During the reporting period, staff participated in a subcommittee meeting and provided data to the subcommittee.

Meeting(s) Staff participated in an ASTM F15.66 subcommittee meeting to discuss task groups covering crib mattress ad hoc language, surface firmness, corner gap evaluation, cyclic testing, and breathability.

Communication(s)	Date	Type	Summary
	10/12/2022	Data	Staff provided the subcommittee with the incident data for infant mattresses sheets from 1/1/2012-7/10/2022.

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

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

Frame Child Carriers

Purpose To work with ASTM 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
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ASTM F2549-22	<i>Standard Consumer Safety Specification for Frame Child Carriers</i>
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- Standard(s) Update** The voluntary standard was not updated during the reporting period.
- Relevant Rulemaking** 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)** Voluntary standards meetings related to this topic did not take place during the reporting period.
- Communication(s)** There were no communications during the reporting period.
- Ballot(s)** There were no 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 Rulemaking 16 CFR part 1219, *Safety Standard for Full-Size Cribs*

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

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

Ballot(s) There were no 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 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 revision to ASTM F1004-23 consisted of a clarification regarding wall cup warnings. ASTM has not notified the Commission of this small editorial update.

Relevant Rulemaking 16 CFR part 1239, *Safety Standard for Gates and Enclosures*

The mandatory standard was updated on November 14, 2022 [87 FR 68032], with an effective date of January 21, 2023. 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 meeting to discuss ballot results and shared incident data with the subcommittee. Additionally, staff prepared and presented a briefing package for Commission consideration on the revisions to the standard published in ASTM F1004-22.

Meeting(s) Staff participated in subcommittee meeting to discuss ballot results on wall cup warnings and third-party accessory concerns.

<i>Communication(s)</i>	Date	Type	Summary
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10/13/2022	Data	Staff provided the subcommittee with the incident data for baby gates/wall cups/wall extenders from 8/14/2019-10/8/2022.
12/30/2022	Letter	Staff notified ASTM that the Commission would be updating the standard referenced in the CFR.

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

Next Action Staff will participate in upcoming subcommittee meetings in May 2023.

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 Rulemaking 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.

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

Communication(s) There were no 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.

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 high chair hazards.

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 Rulemaking 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.

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

Communication(s) There were no 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.

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 Kish, Celestine

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 Rulemaking 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 a subcommittee meeting during the reporting period.

Meeting(s) Staff participated in a subcommittee meeting where they raised an issue of wording related to stability testing. A task group was formed and staff volunteered to lead it.

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

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

Next Action Staff will lead the task group and participate in the next ASTM subcommittee meeting in May 2023.

Infant Bath Tubs

Purpose To work with ASTM 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 Rulemaking 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 stability and resistance to 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.

Communication(s)	Date	Type	Summary
	2/16/2023	Data	Staff provided the subcommittee with a summary of the annual incident data for the period ending 1/5/2023.

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

Next Action Staff will participate in the upcoming subcommittee meeting in May 2023.

Infant Bouncer Seats

Purpose To work with ASTM 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 Rulemaking 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.

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

Communication(s)	Date	Type	Summary
	1/20/2023	Letter	Staff provided ASTM with notification of Commission incorporation of the new standard in the regulation.

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

Next Action Staff will participate in upcoming subcommittee meetings in May 2023.

Infant Sleep Products

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing hazards, to form the basis of a federal standard intended to reduce hazards associated with infant sleep products.

Staff Contact Kish, Celestine

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3118-17a	<i>Standard Consumer Safety Specification for Infant Inclined Sleep Products</i>

Standard(s) Update The voluntary standard was withdrawn on October 1, 2022.

Relevant Rulemaking 16 CFR part 1236, *Safety Standard for Infant Sleep Products*

Activities Summary Staff continues to work with the ASTM F15.18 subcommittee on infant safe sleep issues. During the reporting period, staff participated in a subcommittee meeting.

Meeting(s) Staff attended a subcommittee meeting that discussed the withdrawal of the standard.

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

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

Next Action No next actions are planned at this time.

Infant Swings

Purpose To work with ASTM 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 F2088-22	<i>Standard Consumer Safety Specification for Infant and Cradle Swings</i>

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

Relevant Rulemaking 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 a task group meeting on swing strangulation hazards and notified the subcommittee of the update to the regulation.

Meeting(s) Staff participated in a task group meeting on performance and test requirements of head entrapment and strangulation hazards.

Communication(s)	Date	Type	Summary
	11/10/2022	Letter	Staff provided ASTM with notification of Commission incorporation of the new standard in the regulation.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	ASTM F2088	Ballot F15(21-10), item 6, addressed warning language. The ballot item passed.
	April 2022	ASTM F2088	Ballot F15(22-03), item 2, proposed to find a negative vote not persuasive, allowing F15(21-10) item 6, to pass.

Next Action Staff will participate in upcoming subcommittee meetings in May 2023.

Infant Walkers

Purpose To work with ASTM 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>
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Standard(s) Update The voluntary standard was not updated during the reporting period.

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

On November 29, 2022, the Commission published the direct final rule 16 CFR part 1228, *Safety Standard for Infant Walkers* (87 FR 73241) with an effective date of February 25, 2023.

Activities Summary Staff continues to work with the ASTM F15.17 subcommittee on safety issues related to infant walkers. During the reporting period, staff notified ASTM of the incorporation of the standard into 16 CFR part 1228.

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

Communication(s)

Date	Type	Summary
1/20/2023	Letter	Staff provided ASTM with notification of Commission incorporation of the new standard in the regulation.

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

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

Non-Full-Sized Cribs and Play Yards

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing hazards, to form the basis of a federal standard intended to reduce hazards associated with infant sleep products.

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 On December 5, 2022, ASTM provided notification to CPSC of the latest revision to the standard, ASTM F406-22, *Standard Consumer*

Safety Specification for Non-Full-Size Baby Cribs/Play Yards. This revision includes changes to the mattress thickness requirements for play yards, increasing the maximum thickness to 2 inches, requirements limiting the length of cords/straps that can form a loop, scope to account for product intended for play only and not for sleep.

Relevant Rulemaking

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

On March 6, 2023, the Commission published the direct final rule 16 CFR part 1220, *Safety Standard for Non-Full-Size Baby Cribs* (88 FR 13686) with an effective date of June 3, 2023.

Note: 16 CFR part 1221 references 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 a subcommittee meeting, voted on a ballot, provided suggested improvements to the voluntary standard, provided briefing packages to the Commission on the last revisions to the standard, provided a briefing package to the Commission recommending action for petitions for requirements on the play yard regulation, and provided data to the subcommittee.

Meeting(s)

Staff attended a subcommittee meeting where the subcommittee discussed results of recent ballot items and a proposed warning pictogram, which resulted in the formation of a task group.

Communication(s)

Date	Type	Summary
10/6/2022	Letter	Staff provided the ASTM F15.18 subcommittee with a formal response to the abstention with comment vote on ballot F15(22-16), item 2.
12/14/2022	Data	Staff provided the subcommittee with three redacted IDIs involving gap entrapment deaths.
3/2/2023	Letter	Staff notified ASTM that the Commission would be retaining the existing standard referenced in the CFR for 16 CFR part 1221.
3/13/2023	Letter	Staff provided a letter requesting that the subcommittee consider a test for mattress firmness for original equipment manufacturer (OEM) play yard mattresses.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)

October 2022	ASTM F406	Ballot F15(22-16), item 2, proposed changes to warnings based on ad hoc language recommendations and add a nonmandatory appendix for reference materials. The item received four negative votes and several comments. It remained unresolved at the end of the reporting period.
October 2022	ASTM F406	Ballot F15(22-16), item 3, proposed incorporation of Ad Hoc Language updates for warning statements for rigid sided rectangular products and all other mattress products. The item received two negative votes and remained 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 2023.

Portable Bed Rails (Children’s)

Purpose To work with ASTM 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 Lee, Kevin

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

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

Ballot(s) There were no 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 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 Rulemaking 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.

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

Communication(s) There were no 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.

Sling Carriers (Infant and Toddlers)

Purpose To work with ASTM 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 F2907-21	<i>Consumer Safety Specification for Sling Carriers</i>

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

Relevant Rulemaking 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. During the reporting period, staff participated in a subcommittee meeting.

Meeting(s) Staff participated in an ASTM F15.21 subcommittee meeting where the subcommittee discussed a previous ballot, the scope task group gave updates, and a lower weight limit was specified in the standard. CPSC staff expressed that its focus for revisions to incorporated standards are to ensure that they increase safety.

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

Ballot(s) There were no 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 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 Zachary Foster

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

Communication(s) There were no 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.

Stationary Activity Centers

Purpose To work with ASTM 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 Rulemaking 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. Staff participated in a subcommittee meeting and provided incident data to the subcommittee.

Meeting(s) Staff participated in a subcommittee meeting where the subcommittee discussed ballot results and formed a task group to address concerns with the ballot on secondary support systems.

Communication(s)	Date	Type	Summary
	3/30/2022	Data	Staff provided the subcommittee with the annual summary incident data for stationary activity centers from 3/18/2022 through 3/9/2023.

<i>Applicable Ballot(s)</i>	Date Closed	Voluntary Standard	Summary and Results (If Applicable)
	August 2022	ASTM F2012	Ballot F15(22-12), item 1, included Ad Hoc language and warning updates. There was a persuasive negative and the item was removed from the ballot.
	August 2022	ASTM F2012	Ballot F15(22-12), item 2, updated pictograms. The ballot item remained unresolved at the end of the reporting period.

Next Action Staff will participate in the next subcommittee meeting, scheduled for May 2023.

Toddler Beds

Purpose To work with ASTM 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 Rulemaking 16 CFR part 1217, *Safety Standard for Toddler Beds*

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

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

<i>Communication(s)</i>	Date	Type	Summary
	10/13/2022	Data	Staff provided the subcommittee with incident data for toddler beds from 2/1/2017 through 8/1/2022.

Ballot(s) There were no 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 Eilbert, Mark

Voluntary Standard(s)	Designation and current version	Title
	ASTM D3475-20	<i>Standard Classification of Child-Resistant Packages</i>
	ASTM D2063/D2063M-2010(2018)	<i>Test Methods for Measurement of Torque Retention for Packages with Continuous Thread Closures Using Non-Automated (Manual) Torque Testing Equipment</i>

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

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

Activities Summary During the reporting period, staff participated in subcommittee meetings.

Meeting(s) Staff participated in a subcommittee meeting where the inclusion of seal separation mode graphics into F17-20 Standard Terminology Relating to Primary Barrier Packaging was proposed. Two standards related to child resistant packages will be balloted for reapproval: ASTM D2063/D2063M-2010(2018) Test Methods for Measurement of Torque Retention for Packages with Continuous Thread Closures Using Non-Automated (Manual) Torque Testing Equipment, and ASTM D3474-1990(2018) Practice for Calibration and Use of Torque Meters Used in Packaging Applications.

Communication(s) There were no 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 October 2023. Staff will review ballots, when issued.

Crib Bumpers

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing hazards and form the basis of a federal standard intended to reduce hazards associated with crib bumpers.

Staff Contact Smith, Tim

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1917-23	<i>Standard Consumer Safety Specification for Infant Bedding and Related Accessories</i>

Standard(s) Update The standard was updated February 10, 2023. The current revision of the standard corrects an error in the permanency of labels and warnings test method that was published in the prior revision.

Relevant Rulemaking The NPR for 16 CFR part 1240, *Safety Standard for Crib Bumpers/Liners* was published in the *Federal Register* (85 FR 18878) on April 3, 2020. In July 2022, following passage of the Safe Sleep for Babies Act (SSBA) and its designation of crib bumpers as banned hazardous products under section 8 of the CPSA, the Commission terminated rulemaking. An NPR for 16 CFR part 1309, *Ban of Crib Bumpers*, to codify the statutory ban on “crib bumpers” as established by the SSBA, was published in the *Federal Register* (87 FR 44307) on July 26, 2022.

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

Meeting(s) Staff participated in a subcommittee meeting where staff answered questions about the crib bumpers rulemaking activity and the SSBA. The subcommittee also hosted a presentation on a potential method for measuring rebreathing hazards, which resulted in formation of a task group. Staff participated in several rebreathing task group meetings during the reporting period.

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

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

Next Action Staff will participate in the next Infant Bedding subcommittee meeting, when scheduled. Staff will continue rulemaking activities in support of the SSBA.

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 standards were not updated during the reporting period.

Relevant Rulemaking 16 CFR part 1460, *Children’s Gasoline Burn Prevention Act Regulation*
On November 22, 2022, the Commission published the direct final rule 16 CFR part 1460, to incorporate by reference ASTM F2517-22e1 (87 FR 71242) with an effective date of December 22, 2022.

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

Meeting(s) Staff participated in a task group meeting where the task group agreed to work with CPSC staff in trying to assess the impact of ASTM F2517.

Communication(s)	Date	Type	Summary
	11/22/2022	Letter	Staff provided ASTM with notification of Commission incorporation of the new standard in the regulation.

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

Next Action Staff will continue to participate with the ASTM F15.10 subcommittee on the voluntary standard. The next task group to assess the impact of ASTM F2517 will be scheduled for later in the year.

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 Zachary Foster

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3084-22	<i>Standard Consumer Safety Specification for Infant and Infant/Toddler Rockers</i>

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

Relevant Rulemaking Staff is preparing an NPR draft briefing package for Commission consideration.

Activities Summary Staff continues to work with the ASTM F15.18 subcommittee on soft infant and infant/toddler rockers. Staff analyzed incidents and hazard patterns and the adequacy of the voluntary standard.

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

Communication(s) There were no 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.

Infant Support Pillows and Nursing Support Products

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

Staff Contact Smith, Timothy

Voluntary Standard(s)	Designation and current version	Title
	ASTM WK82078	Potential new voluntary standard for Infant Loungers
	ASTM WK82241	Potential new voluntary standard for Infant Feeding Supports

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

Relevant Rulemaking Staff is developing notice of proposed rulemaking briefing packages for infant pillows and for nursing pillows.

Activities Summary Staff continued work with ASTM F15.16 and F15.21 subcommittees to develop new safety standards for infant feeding supports and infant loungers, respectively. During the reporting period, staff participated in subcommittee and task group meetings for these ASTM subcommittees and assisted in the development of voluntary standards for each of these product categories.

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

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
April 2023	ASTM WK82241	Ballot F15.16(23-01), item 1, proposed the new standard for infant feeding products. The ballot item has not closed 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 2023.

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 F963-17	Standard Consumer Safety Specification for Toy Safety

ASTM D8133-21	<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

The voluntary standards were not updated during the reporting period.

Relevant Rulemaking

16 CFR part 1250, *Safety Standard for Toys*

Activities Summary

Staff continues to work with the ASTM F15.22 subcommittee on toy safety issues. During the reporting period, staff engaged with ASTM on several ballot items, participated in subcommittee and task group meetings, and provided multiple recommendations on safety improvements for F963. Staff is expecting ASTM to publish a new revision to the standard in Fall 2023. Additionally, staff participated in several ISO TAG meetings.

Staff is working with the ASTM D20.70 subcommittee on analytical methods to review the status of several analytical methods. Staff plans to participate in an ASTM D20.70 Inter-laboratory Study (ILS) of phthalate test methods, focusing on ASTM D8133. ILS testing is expected to begin in June 2023.

Meeting(s)

Staff attended several ISO TAG meetings, including plenary and multiple working group (WG) meetings. Staff also attended an ASTM F15.22 subcommittee meeting and task group meetings on aquatic toys, and emerging hazards, which included discussion of expanding materials and water beads and ride-on toys.

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*.

Communication(s)

Date	Type	Summary
11/2/2022	Letter	Staff made recommendations to the subcommittee on ride-on toys.
11/9/2022	Data	Staff provided IDIs for battery ingestion incidents.
2/7/2023	Letter	Staff made recommendations to the subcommittee for expanding materials and water beads.

2/20/2023	Letter	Staff provided comments with an abstention vote for ballot F15(23-02).
3/20/2023	Letter	Staff made recommendations for battery accessibility requirements in F963.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
February 2023	ASTM F963	Ballot F15(23-02), item 1, dealt with toy acoustics. The item received a negative vote, later withdrawn, and a comment from staff. The ballot item was unresolved at the end of the reporting period.
February 2023	ASTM F963	Ballot F15(23-02), item 2, proposed to align with current CPSC testing exemptions for toy substrates. One negative was withdrawn. The ballot item was unresolved at the end of the reporting period.
February 2023	ASTM F963	Ballot F15(23-02), item 3, proposed changes to the section on battery accessibility. This item was removed from the ballot due to staff and others' comments and a task group was formed.
February 2023	ASTM F963	Ballot F15(23-02), item 4, proposed to expand the labeling requirements for not "exclusively" intended to be strung across strollers and carriages. The ballot item was unresolved at the end of the reporting period.
February 2023	ASTM F963	Ballot F15(23-02), item 5, proposed to correct a typographical error in section 8.3.2.1. The ballot item was unresolved at the end of the reporting period.

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

Wearable Infant Blankets

Purpose To work with ASTM to address hazards associated with wearable infant blankets used for sleep.

Staff Contact Phillips, Khalisa

Voluntary Standard(s)	Designation and current version	Title
	ASTM WK81176	New Specification for Wearable Infant Sleep Products

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

Relevant Rulemaking N/A

Activities Summary Staff continues to work with the ASTM F15.19 subcommittee to develop safety requirements for wearable infant sleep products. During the reporting period, staff participated in several subcommittee and task group meetings.

Meeting(s) Staff participated in a subcommittee and task group meetings where the subcommittee worked to develop a draft standard for ballot. Task groups meetings focused on scope, performance requirements, and warnings. Staff participated in extensive discussions regarding weighted wearable infant sleep products and their safety.

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

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

Next Action Staff will participate in the next subcommittee meeting, scheduled in May 2023.

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>

ASTM WK69730	Potential new voluntary standard for wired directed-energy deposition processes
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Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rulemaking 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. During the reporting period, staff led a task group meeting on emissions and safety guidance. Additionally, staff reviewed the ballot on the second addition of the standard.

Meeting(s) Staff attended a UL 2904 STP meeting. The UL 2904 Working Group began to update standards for emissions testing. Staff served as a task group leader for the development of a guidance document for 3D printer users. The task group developed a guidance document that is an informative appendix in the updated standard. The guidance will be placed in a separate document that will be available to the public free of charge. This will encourage small manufacturers to comply with voluntary standards and best practices for safety and health. Other efforts focused on larger scale use of printers and the responsible use of materials in 3D home construction.

Additionally, the STP reviewed the comments submitted during the balloting process and changes were made to the standard based on STP input. Changes included recommendations to improve the analytical procedures to characterize and quantify emissions from 3D printers during the printing process. The ballot for the new iteration of the UL 2904 Ed.1 was recirculated in late February 2023.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	November 2022	UL 2904	The ballot for the second addition of the standard opened in September. The revision proposed updated analytical methods and guidance for the safe use of 3D printers for consumers and small manufacturers with minimal technical training. The ballot was still open at the end of the reporting period.

Next Action Staff expects the balloted second edition of the standard and safety guidance to be approved and released in Fall 2023.

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 standard was updated on March 17, 2023. The revision includes adding requirements for revising the definitions, a safety case framework, and examples for: Autonomous Trucking, the Safety Performance Indicator definition, and post-incident behaviors of the standard.

Relevant Rulemaking 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 a UL STP 4600 meeting.

Meeting(s) Staff participated in a UL STP 4600 meeting. Staff posed several questions regarding the UL 4600 scope and potential application to off-road vehicles that fall within CPSC's jurisdiction.

Communication(s) There were no 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 meeting. 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 The voluntary standards were not updated during the reporting period.

Relevant Rulemaking N/A

Activities Summary CPSC staff continues to work to improve the safety of connected consumer products. During the reporting period, staff participated in a UL STP 2900-1 meeting.

Meeting(s) Staff participated in a STP meeting covering glossary terms, software source code, quality measurements, and testing. Staff asked for clarification on some terms.

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

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

Next Action Staff plans to continue to participate in STP and TG meetings. 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 E2525-08 (2013) (Withdrawn)	<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 13830:2013	<i>Nanotechnologies — Guidance on voluntary labelling for consumer products containing manufactured nano-objects</i>

Standard(s) Update

In December 2022, the revised standard ASTM E3025-22, *Standard Guide for Tiered Approach to Detection and Characterization of Manufactured Silver Nanomaterials in Textiles*, was published. Updates include changes to figures, information on the advantages and limitations of using ICP-MS, new relevant OECD guidance documents and test guidelines, and overall editorial changes to improve readability.

Relevant Rulemaking

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 and reviewed a ballot.

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 also participated in ASTM E56 committee meetings where, among other items discussed, staff participated in discussions on revising ASTM E2525, which has been withdrawn.

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

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2022	ASTM E3025	Ballot item E56(22-05), Item 2, sought to review the standard after five years of publication and made changes to improve clarity, remove redundancies, and update the content of the standard. The ballot item passed.

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 Dayal, Vineed

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. The STP is currently developing the first draft of the standard.

Relevant Rulemaking N/A

Activities Summary Staff continues to work with the UL STP to develop the new standard and is participating in multiple task groups for the effort.

Meeting(s) Staff participated in STP meetings focused on developing the standard, as well as task group meetings for Operational Design Domain and Risk Assessment, Robot Type classifications, Non-Robotic Function, Audible Indicators, Functional Safety, and other topics. Staff continued to highlight consumer safety concerns to be addressed in the standard.

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

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

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

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	Potential new voluntary standard for the safety for virtual reality (VR), augmented reality (AR) and mixed reality (MR) technology equipment

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

Relevant Rulemaking N/A

Activities Summary Staff continued to work with the UL STP to improve the draft standard. During the reporting period, staff participated in numerous task groups and STP meetings, and emphasized safety concerns for the subject immersive technologies, particularly regarding foreseeable use of the products by vulnerable age groups, and regarding the importance of normative requirements. The STP balloted the draft standard (closed March 6, 2023), and staff submitted a letter accompanying their abstention vote, which recommended potential improvements to future editions of the draft standard. 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 participated in regular, reoccurring STP and task group meetings for UL STP 8400, pertaining to safety and warning instructions, vulnerable age groups, and enhancing spatial perception. After the ballot closed, staff

participated heavily in STP discussions reviewing the ballot comments, and staff recommended ways to improve the draft standard.

<i>Communication(s)</i>	Date	Type	Summary
	3/6/2023	Letter	Staff provided recommendations for future versions of the standard along with their abstention vote.

<i>Ballot(s)</i>	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	March 2023	UL 8400	Ballot proposed to establish the draft as a new standard. The ballot item was unresolved at the end of the reporting period. Staff provided a letter with their abstention vote.

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 F3186-17	<i>Standard Specification for Adult Portable Bed Rails and Related Products</i>

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

Relevant Rulemaking Petition CP 13-1 *Petition on Adult Portable Bedrails* was docketed at CPSC in June 2013. The Commission voted to grant the petition on March 15, 2022, directing staff to draft a notice of proposed rulemaking. On November 9, 2022, the Commission published an NPR, *Safety Standard for Adult Portable Bed Rails* [87 FR 67586]. Staff is working on a draft final rule briefing package for Commission consideration.

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

period, staff participated in a subcommittee meeting, multiple revision task groups, and briefed the group on agency activities.

Meeting(s) Staff participated in a subcommittee and task group meetings. Topics included discussion of incident data, hazard identification, potential revisions and safety improvements, and agency activities.

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

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2023	F3186	Ballot F15(23-03), item 4, proposed to make modifications to language for clarity. The ballot item was unresolved at the end of the reporting period.
March 2023	F3186	Ballot F15(23-03), item 5, proposed to make modifications to language for clarity. The ballot item was unresolved at the end of the reporting period.

Next Action Staff will continue participate in subcommittee and task group meetings, as scheduled. Staff will continue work on a draft final rule briefing package for Commission consideration.

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 Paul, Caroleene

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 Rulemaking 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 subcommittee meetings and provided feedback on the agency’s contract related to creating Reference Surfaces for testing and performing a human research study (Arizona State University/ASU).

Meeting(s) Staff participated in a task group meeting focused on updating the standard, including reference surfaces for testing and the CPSC contract to facilitate development of those reference materials, as well as outcomes from the CPSC human study contract, and other tasks to develop a new standard that addresses slip and fall hazards.

Communication(s) There were no 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, scheduled in April 2023. Staff will share contract work results, when completed.

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, 1 st 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>

**Standard(s)
Update**

The voluntary standards were not updated during the reporting period.

**Relevant
Rulemaking**

N/A

**Activities
Summary**

Staff continues to work with both ASTM 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. All of these activities are presently ongoing to improve overall lithium-ion battery safety within the scope of consumer products.

Meeting(s)

Staff participated in ANSI C18 meetings to discuss fire related battery issues and the NEMA Lithium Ion Cells and Batteries Technical Report (TR), which was registered with ANSI as a Technical Report on April 3, 2020 and is being developed in accordance with the Procedures for the Registration of Technical Reports with ANSI.

Staff requested that UL OOI 2056 develop a trinational safety standard covering power banks with the CPSC, Health Canada, and PROFECO. Staff requested that ULSE develop a working group to improve safety for UL 2271, ANSI/CAN/UL 2272, and ANSI/CAN/UL 2849.

Communication(s)

Date	Type	Summary
2/13/2023	Email	Staff requested formation of a tri-national safety standard covering power bank products using OOI 2056.
2/10/2023	Letter	Staff requested formation of a technical working group for UL 2271, ANSI/CAN/UL

		2272, and ANSI/CAN/UL 2849 to address thermal event incidents.
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Ballot(s) There were no ballots during the reporting period

Next Action Staff will participate in UL meetings, when scheduled. Staff will participate in activities to transition OOI 2056 to a trinational standard. Staff will participate in the e-mobility device and e-bike working group to improve battery safety in those relevant standards.

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 Le, Huy

Voluntary Standard(s)

Designation and current version	Title
UL 4200A, 1 st Edition	<i>Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies</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 Rulemaking On August 16, 2022, 15 U.S.C. § 2056e (Pub. L. No. 117-171), or Reese’s Law, was enacted, directing CPSC to “promulgate a final consumer product safety standard for button cell or coin batteries and consumer products containing button cell or coin batteries,” not later than

1 year after the date of enactment. The law also establishes a child-resistant packaging standard for button cell or coin battery packaging. On February 9, 2023, the Commission published an NPR, *Safety Standard and Notification Requirements for Button Cell or Coin Batteries and Consumer Products Containing Such Batteries* [88 FR 8692].

Activities Summary

During the reporting period, staff provided updates to the ANSI C18 committee related to Reese’s Law, including the signing of Reese’s Law, the NPR, and the schedule for the FR. Staff continues to advocate for strong warning labels and child-resistant packaging for button and coin cell batteries in ANSI C18 standards.

Meeting(s)

Staff participated in NEMA/ANSI C18 and UL TC 4200 meetings to discuss button and coin cell battery ingestion hazards, warnings and labeling, and packaging. Staff also approached ASTM F15.22 with recommendations on battery requirements in ASTM F963 (see the entry for *Toys*).

Communication(s)

There were no communications during the reporting period.

Ballot(s)

There were no ballots during the reporting period

Next Action

Staff will participate 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 prepare a draft FR briefing package for Commission consideration, in accordance with Reese’s Law.

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 F2417-17	<i>Standard Specification for Fire Safety for Candles</i>
ASTM F2601-18	<i>Standard Specification for Fire Safety for Candle Accessories</i>

Standard(s) Update

The voluntary standards were not updated during the reporting period.

Relevant Rulemaking Petition CP 04-1 and HP 04-01 were denied in September 2014. The Commission directed staff to continue to work with ASTM.

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 and candle making kits.

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

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

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2023	ASTM F2417	ASTM F15(23-03), items 1-3, proposed changes to a nonmandatory appendix and requirements for glass, a method for reducing end-of-life candle fires, and requirements for wick stability. The ballot items were unresolved at the end of the reporting period.

Next Action Staff will continue to participate in subcommittee meetings, quarterly incident data teleconferences, and task group meetings, as scheduled. The subcommittee plans to revise F2417 by summer of 2023 and F2601 in FY 2024.

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>
	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 Rulemaking

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 participated in a UL 2034 meeting. Additionally, staff continued working with the contractor to complete the National Smoke and CO Alarm Survey. The survey will provide a national representation of smoke and CO alarm usage in the United States and a better understanding of how these devices are used to inform fire and CO safety stakeholders on ways to reduce the death rate from fires and CO poisoning.

Meeting(s)

Staff participated in a UL 2034 meeting to discuss a potential expansion of the standard’s scope.

Communication(s)

There were no communications during the reporting period.

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 complete the Smoke and CO Alarm survey and the contractor will provide a report to staff in FY 2023.

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

Voluntary Standard(s)

Designation and current version	Title
ASTM F2057-23	<i>Standard Safety Specification for Clothing Storage Units</i>
ASTM F3096-21	<i>Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)</i>

Standard(s) Update

ASTM F2057-23 was published on February 6, 2023. The current revision of the standard includes changes to the stability requirements, scope, and warning labels, and a new test for units with interlock systems.

Relevant Rulemaking

On November 25, 2022, the Commission published a final rule, *Safety Standard for Clothing Storage Units*, (87 FR 72598) with an effective date of May 24, 2023.

On December 29, 2022, the STURDY (Stop Tip-overs of Unstable, Risky Dressers on Youth) Act was signed into law. After ASTM F2057-23 was published, CPSC started the process of examining and assessing whether it met STURDY’s requirements, as required by the new law. On March 22, 2023, staff submitted a briefing package for Commission consideration.

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, and kept the group informed of the associated rulemaking.

Meeting(s)

Staff participated in multiple subcommittee and task group meetings related to the proposed changes to the ASTM F2057 and F3096 standards. Meetings included ASTM F3096 scope, instructions, static and dynamic forces, and material interactions task groups. Staff briefed the subcommittee on the final rule and activities related to STURDY, hosted a testing demonstration, and provided feedback on proposals.

Communication(s)

Date	Type	Summary
11/3/2022	Letter	Staff provided statements to the F15.42 subcommittee chair for a negative vote on ballot F15(22-17), item 1.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2022	ASTM F3096	ASTM F15(22-17), item 1, proposed to increase the test force in ASTM F3096 from 50 pounds to 60 pounds to align with changes made to ASTM F2057. The item received several negative votes that were all withdrawn except for staff’s negative vote. The item passed once staff’s vote was found not related.
March 2023	ASTM F3096	ASTM F15(23-03), item 7, proposed to find staff’s negative vote on ballot F15(22-17), item 1, not related. The item passed.

Next Action Staff will participate in upcoming subcommittee and task group meetings. The Commission will determine whether ASTM F2057-23 meets the requirements in STURDY and take related rulemaking actions in the next reporting period.

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 Rulemaking N/A

Activities Summary Staff continues to work with UL to improve the safety of electric heaters. During the reporting period, staff sent a letter to UL with the CPSC staff report, *CPSC Staff Assessment on Portable Electric Heaters* (February 2023) asking UL to form a working group to address electric heaters fire hazards.

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

Communication(s)	Date	Type	Summary
	3/13/2023	Letter	Staff requested that the UL TC 1042 form a working group to address fire hazards related to portable electric heaters.

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

Next Action UL will form a working group to address electric heaters. CPSC staff will participate on the working group to address electric heater fire related issues.

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-20	<i>Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers</i>
-	ASTM F852 / ASTM F852M-22	<i>Standard Specification for Portable Gasoline Kerosene, and Diesel Containers for Consumer Use</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 The voluntary standard was not updated during the reporting period.

Relevant Rulemaking Portable Fuel Container Safety Act of 2020

Activities Summary During the reporting period, staff participated in multiple subcommittee and task group meetings to develop requirements for portable fuel containers and gasoline cans. Staff also reviewed a ballot item.

Meeting(s) Staff participated in ASTM F15.10 subcommittee meetings, working with the group to review labeling requirements and alignment issues with other standards.

Staff participated in multiple ASTM F15.72 task groups on container size, retention, and other potential revisions to ASTM F3429, contributing to the development of safer testing procedures.

Staff participated in a NFPA 30 committee meeting where public inputs for the second draft of the next edition were discussed.

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

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2023	ASTM F3429	ASTM F15(23-03), item 6, proposed to modify the test method to accommodate larger products safely. The item was unresolved at the end of 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/CSA 60335-2-24, 3 rd Edition	<i>Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers</i>
	UL/CSA 60335-2-40, 4th 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	<i>Safety Standard for Refrigeration Systems in Residential Applications</i>

Standard(s) Update In December 2022, CSA published the fourth edition of UL/CSA 60335-2-40, *Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers*. The revised standard includes updated requirements for flammable refrigerants including new labeling requirements.

Relevant Rulemaking N/A

Activities Summary Staff continues to work with CSA and ASHRAE to improve the safety of flammable refrigerants.

Meeting(s) Staff did not participate in any voluntary standards meetings related to this topic during the reporting period.

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

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

Next Action Staff will participate in an ASHRAE 15 committee meeting on April 21, 2023 and an UL/CSA 60335-2-40 working group meeting on May 25, 2023.

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 Paul, Caroleene

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>
	ASTM WK60578	Potential new voluntary standard test method for walkway friction testing

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

Relevant Rulemaking Petition CP 16-1, *Labeling Requirements Regarding Slip Resistance of Floor Coverings* (Denied) and Petition CP 18-2 *Floor Coverings* (Denied)

Activities Summary Staff continues to work with ASTM F13.10 subcommittee to establish better characterization of trip, slip, and fall hazards associated with flooring.

Meeting(s) Staff did not participate in any voluntary standards meetings related to this topic during the reporting period.

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
January 2023	ASTM F2508	ASTM F13.10(22-01), item 1, proposed to update the standard to align with USC3 human slip research. The item received multiple negative votes and was removed from the ballot.
March 2023	ASTM F2508	ASTM F13(23-01), item 1, proposed to update the standard to align with USC3 human slip research. The item received multiple negative votes and was unresolved at the end of the reporting period.

Next Action

Staff will participate in upcoming meetings, as scheduled.

Gas Appliances, CO Sensors

Purpose

To work with technical committees on revising the voluntary standards to strengthen safety provisions addressing hazards associated with CO 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 Z21.13-2017/ CSA 4.9-2017	<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>

Standard(s) Update

The voluntary standards were not updated during the reporting period.

Relevant Rulemaking

The Commission published an ANPR for Performance Requirements for Residential Gas Furnaces and Boilers, in the *Federal Register* on August 19, 2019 (84 FR 42847). At the conclusion of this reporting period, staff was working on an NPR briefing package to send to the Commission.

Activities Summary

Staff continues to monitor the activities of the technical committee and subcommittees for any developments related to CO safety.

Meeting(s) Staff did not participate in any voluntary standards meetings related to this topic during the reporting period.

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

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

Next Action Staff will provide an NPR briefing package to the Commission and then update the voluntary standard bodies on the NPR and related contractor reports. Staff will continue to engage with CSA and any other SDOs interested in gas appliance safety and CO sensors.

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
	ANSI Z21.1-2016/ CSA 1.1-2016	Household Cooking Gas Appliances

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

Relevant Rulemaking N/A

Activities Summary During the reporting period, staff chaired the CSA TSC, which is working on preparing a draft of the next edition to ANSI Z21.1 for ballot this summer or fall. Some of the requirements the TSC is proposing include those for smart-enabled 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.

Staff met monthly with various industry, government, and advocacy stakeholders to review IAQ data associated with gas ranges. This broad-based group is still developing the workflow of establishing recommendations and proposals for possible voluntary standards.

Communication(s) There were no 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 May 2023. 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.

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 D5438-17	<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>
	ASHRAE 62.2-2022	<i>Ventilation and Acceptable Indoor Air Quality in Residential Buildings</i>

Standard(s) Update In December 2022, ASTM published the revised standard ASTM D8141-22, *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*. Updates to the standard included examples of mass-transfer parameters obtained from specialized testing chambers and emission rates obtained from typical small and larger chambers. The

relationships between obtaining empirical data for use in indoor exposure modeling were better defined and characterized in this update.

Relevant Rulemaking

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 continued to advocate for development of voluntary standards that provide information on consumer products and their relationship to the indoor environment, leading to increased coordination with the ASTM F15 subcommittee.

Meeting(s)

Staff participated in ASTM D22.05 subcommittee meetings where ballot results for ASTM D8445-22a, ASTM D8141-17, and ASTM D5438-17 were discussed. Staff also participated in ASTM D22.05 task group meetings where approaches to measure or model substances, such as Per and Poly-Fluoroalkyl Substances (PFASs) in indoor air, consumer products, or indoor dust were discussed.

Staff met frequently with various industry, government, and advocacy stakeholders assembled into three workgroups as part of an independent joint taskforce on reviewing IAQ issues associated with home environments. This group is actively working on incorporating emission protocol from gas ranges and associated indoor air concentrations of carbon monoxide, nitrogen dioxide, and fine particulate matter into revisions of existing voluntary standards.

Communication(s)

There were no communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2022	ASTM D8141	Ballot item D22(22-03), Item 3, proposed to include new references and make parameters designations more uniform with existing literature. The ballot item passed.
January 2023	ASTM D5438	Ballot item D22.05(22-05), Item 2, proposed to update information on test apparatus and a definition. The ballot had one unresolved negative at the end of the reporting period.

Next Action

Staff will continue to participate in ASTM and ASHRAE meetings to develop and review standards related to IAQ and consumer products. For example, staff continued to lead work on an ASTM work item under D22.05 titled *Defining and categorizing modeling approaches to support*

source characterization for indoor exposure assessment of consumer products.

Lighters

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

Staff Contact Khanna, Rik

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>

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

Relevant Rulemaking 16 CFR part 1210, *Safety Standard for Cigarette Lighters*
16 CFR part 1212, *Safety Standard for Multi-purpose Lighters*

Activities Summary Staff continues to work with the ASTM F15.02 subcommittee on lighter safety issues. During the reporting period, staff participated in two subcommittee meetings.

Meeting(s) Staff attended two subcommittee meetings where “micro torch” lighters and rechargeable (battery-powered) lighters were discussed and advocated for safety requirements for these products. The subcommittee voted to form working groups to address these products. Staff will participate.

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

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

Next Action Staff will participate in upcoming subcommittee 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 standards were not updated during the reporting period.

Relevant Rulemaking 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 subcommittee and task group meetings on seniors and ocular and dermal injuries.

Meeting(s) Staff attended a subcommittee meeting where task groups gave updates on their activities. Staff also participated in several task group meetings on injuries related to seniors and those with dementia and dermal and ocular injuries associated with use of the products.

Communication(s) There were no 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.

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/ CSA 2.41-2017	<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, 2020 Edition	<i>Liquefied Petroleum Gas Code</i>

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

Relevant Rulemaking N/A

Activities Summary During the reporting period, staff attended several technical subcommittee meetings and reviewed a ballot item.

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

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2023	ANSI Z21.898	Ballot for the next edition to the standard, including provisions for smart-enabled outdoor specialty cooking gas appliances. The ballot results had not been discussed by the end of the reporting period.

Next Action Staff will participate in upcoming CSA TSC meetings, when scheduled. Staff will continue to monitor and participate with CSA and any other SDOs interested in LP gas appliances safety.

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

Relevant Rulemaking 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 proposed a testing methodology, performed product testing, provided comments on draft documents, provided testing and incident data, participated in task group meetings on establishing scope and test requirements, gathered data on wind forces and related information, and provided feedback on the agency’s position for maintaining or improving safety for these products.

Meeting(s) Staff participated in a subcommittee meeting and several task group meetings, focused on developing a standard for beach umbrellas, including hosting a meeting at the CPSC laboratory where staff proposed a testing methodology.

Communication(s)

Date	Type	Summary
11/30/2022	Data	Staff provided the ASTM F15.79 subcommittee with data associated with a proposed testing methodology.
12/6/2022	Data	Staff provided the subcommittee with an IDI for a beach umbrella incident.

Ballot(s) There were no ballots during 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 is expecting a draft beach umbrella safety standard to be ready for subcommittee ballot by the end of FY23.

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 Newens, Andrew

Voluntary Standard(s)

Designation and current version	Title
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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 Rulemaking

16 CFR part 1205, Safety Standard for Walk-Behind Power Lawn Mowers and Petition CP 19-1 on Walk-Behind Power Lawn Mowers (withdrawn May 2020)

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 to OPEI, reviewed and responded to a ballot, and participated in meetings for riding lawn mowers. Staff continued working with SEA Limited to support contract work on riding mower rollovers (an interim report was published), and working with FMG to finish out the contract work on riding mower runover and backover hazards (a final report was published).

Meeting(s)

Staff participated in several riding lawnmower meetings to discuss incident data and hazard patterns.

Communication(s)

Date	Type	Summary
2/3/2023	Letter	Staff provided the OPEI with recommendations following staff's ballot response.
3/31/2023	Data	Staff provided OPEI with IDIs for riding lawn mower incidents.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2022	OPEI/ISO 5395-202X	Ballot for the proposed adoption of the voluntary safety standard for powered lawn mowers (which would supersede ANSI/OPEI B71.1-2017),

Next Action

Staff will meet with the OPEI B71.1 committee in April 2023. Contract work with SEA Limited on riding mower rollover testing will continue through FY23.

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

Voluntary Standard(s)	Designation and current version	Title
	ANSI/PGMA G300-2018 (Errata Update)	<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 The voluntary standards were not updated during the reporting period.

Relevant Rulemaking The Commission published an NPR on November 21, 2016 (81 FR 83556). Staff delivered and briefed the Commission on a draft supplemental NPR in March 2023.

Activities Summary Staff continues to work with UL and PGMA on CO hazard mitigation requirements in UL 2201 and PGMA G300. Additionally, staff continues to develop a regulatory proposal for these hazards.

Meeting(s) Staff participated in a meeting with PGMA on January 12, 2023 that included a discussion of a proposed revision by PGMA to PGMA G300-2018.

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

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

Next Action Staff will participate in any upcoming meetings and share data, as needed. Staff will continue work on 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
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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 standard was not updated during the reporting period.
Relevant Rulemaking	N/A
Activities Summary	Staff worked actively to identify the correct committee, schedule a meeting, and engage stakeholders to begin addressing hazards raised by staff related to pressure cookers.
Meeting(s)	Voluntary standards meetings related to this topic did not take place during the reporting period.
Communication(s)	There were no communications during the reporting period.
Ballot(s)	There were no 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 year.

Recliners

Purpose	To work with SDOs to address entrapment and crushing hazards associated with home recliners.				
Staff Contact	Nesteruk, Hope				
Voluntary Standard(s)	<table border="1"> <thead> <tr> <th>Designation and current version</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>None</td> <td><i>None</i></td> </tr> </tbody> </table>	Designation and current version	Title	None	<i>None</i>
Designation and current version	Title				
None	<i>None</i>				
Standard(s) Update	The voluntary standards were not updated during the reporting period. Staff will work with SDOs to develop a standard(s).				
Relevant Rulemaking	16 CFR Part 1640, <i>Standard for the Flammability of Upholstered Furniture</i>				
Activities Summary	Staff will work with SDOs to identify or develop standards to address mechanical hazards related to recliners.				

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

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

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

Next Action Staff will send a letter to SDOs to request voluntary standards activity to address entrapment and crushing hazards associated with recliners.

Smoke Alarms

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

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 In October 2022, ULSE published the 9th edition of UL 217, *Standard for Single and Multiple Station Smoke Alarms*. Revisions included sensitivity test clarifications, supervised battery clarifications, mechanical push test for push-type features, requirements for recreational vehicles and boats, new firmware requirements, updated polyurethane foam, and cooking nuisance requirements.

Relevant Rulemaking N/A

Activities Summary Staff continues to work with ULSE and NFPA to improve efficacy of smoke alarms, participating in meetings with both groups. Additionally, staff continued working with the contractor to complete the National Smoke and CO Alarm Survey. The survey will provide a national representation of smoke and CO alarm usage in the US and a better understanding of how these devices are used to better inform fire and CO safety stakeholders on ways to reduce the death rate from fires and CO poisoning.

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

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

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

Next Action Staff plans to attend the third draft NFPA 72 meeting on public comments in July 2023 for the 2025 edition. Staff plans to complete the Smoke and CO Alarm survey and the contractor will provide a report to staff in FY 2023.

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 Rulemaking NPR *Safety Standard Addressing Blade-Contact Injuries on Table Saws* (82 FR 22190)

Activities Summary There has been no activity associated with the standard during the reporting period.

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

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

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

Next Action Staff will continue to monitor incident data and recommend safety improvements. Staff will continue rulemaking activities.

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>

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

Relevant Rulemaking Petition PP 11-1 requesting rulemaking for non-see-through packaging for torch fuel and lamp oil. The Commission directed staff to work with ASTM.

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 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 met with the task group 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 communications during the reporting period.

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

Next Action Staff plans to attend the upcoming task group meeting in June 2023.

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
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UL 2157, 4th Edition	<i>Electric Clothes Washing Machines and Extractors</i>
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Standard(s) Update The voluntary standard was not updated during the reporting period.

Relevant Rulemaking N/A

Activities Summary There has been no activity associated with the standard during the reporting period.

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

Communication(s) There were no 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 in April and May.

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>

Standard(s) Update In December 2022, WCMA published ANSI/WCMA A100.1-2022, *Standard for Safety of Corded Window Covering Products*. Among other changes, the revised standard eliminates free hanging operating pull cords in custom products and excludes the use of continuous loop cords with tension devices on horizontal blinds.

Relevant Rulemaking 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. 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.

Activities Summary

Staff continues to work with WCMA on window covering safety issues. During the reporting period, staff reviewed and commented on draft revisions to the standard.

Meeting(s)

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

Communication(s)

There were no communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2022	ANSI/WCMA A100	Recirculation ballot was issued on 9/23/2022. Staff's original vote remained the same.

Next Action

Staff will participate in upcoming committee meetings, when scheduled.

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

Taxier, Daniel

Voluntary Standard(s)

Designation and current version	Title
ASTM F747-22	<i>Standard Terminology Relating to Amusement Rides and Devices</i>
ASTM F770-22	<i>Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices</i>
ASTM F1193-22	<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 F2291-22a	<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**

In January 2023, ASTM published ASTM F747-22, *Standard Terminology Relating to Amusement Rides and Devices*. This revision removed definitions for terms that were not being used in other ASTM F24 committee standards.

**Relevant
Rulemaking**

N/A

**Activities
Summary**

Staff continued working with ASTM F24 to improve safety standards for amusement rides, trampoline parks, and adventure attractions. During the reporting period, staff attended multiple subcommittee and task group meetings, reviewed ballot items, and provided trampoline incident data.

Meeting(s)

Staff attended multiple F24 subcommittee and task group meetings for amusement park rides and devices. Staff was especially active with the trampoline court task group this reporting period, where multiple requirements were reviewed in the relevant standards. Staff also attended a presentation on weight trends of riders with the idea that these trends may influence future safety requirements.

Communication(s)

Date	Type	Summary
10/12/2022	Data	Staff provided the ASTM F24.61 subcommittee with trampoline incidents in institutional settings for the period 1/1/2012 to 12/31/2021.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2022	ASTM F2291	Ballot F24 (22-05), item 1, proposed clarifications to acceleration analysis requirements. The item was removed from the ballot.
October 2022	ASTM F770	Ballot F24 (22-05), item 5, proposed requirements for portable amusement rides. The item was removed from the ballot.

October 2022	ASTM F2291	Ballot F24 (22-05), item 6, proposed a definition for portable amusement ride or device. The item was removed from the ballot.
October 2022	ASTM F2291	Ballot F24 (22-05), item 7, proposed renaming the definitions section. The item remains unresolved.
October 2022	ASTM F2970	Ballot F24 (22-05), item 8, proposed revisions to the trampoline court standard. The item remains unresolved.
October 2022	ASTM F2291	Ballot F24 (22-06), items 1 through 10, proposed removal of non-mandatory language. All items were removed from the ballot.
October 2022	ASTM F1193	Ballot F24(22-07), item 1, proposes additional specialty standards in section 8.2.1. The item received multiple negative votes and the item was removed from the ballot.
January 2023	ASTM F1193	Ballot F24(22-08) had two items related to this standard. Item seven proposes to list applicable standards. Item seven remains unresolved. Item eight proposes organizational changes to a section. Item eight received one negative vote that was found non-persuasive and passed to the next ballot level.
January 2023	ASTM F2291	Ballot F24(22-08) had three items related to this standard. Items 9, 10, and 11 propose scope and content changes, a definition change, and a table of contents addition, respectively. The items received several negative votes and were removed from the ballot.
January 2023	ASTM F0770	Ballot F24(22-08) had items 12 and 13 that propose additional language for inspection program requirements and evacuation plan development, respectively. The items received several negative votes and item 12 was removed from the ballot while item 13 remains unresolved.
January 2023	ASTM F2291	Ballot F24(22-10) had three items related to this standard. Items 1, 2, and 3 propose a modification program and revision to two figures, respectively. Items 1 and 2 were removed from the ballot. The negative

		vote on item 3 was withdrawn, but it is not yet resolved.
January 2023	ASTM F0770	Ballot F24(22-10), item 4, proposes a modification program. The item was removed from the ballot.
January 2023	ASTM F2970	Ballot F24(22-10), item 6, proposes multiple changes, including terminology, content in multiple sections, and editorial updates in response to proposed changes, such as renumbering. The item received several negative votes and was removed from the ballot.
April 2023	ASTM 2291	Ballot F24(23-1) had nineteen items (items 2 through 19 and item 36) proposing various changes to the standard, some previously balloted. The ballot was still open at the end of the reporting period.
April 2023	ASTM F0770	Ballot F24(23-1), items 20 and 21, propose supplemental bulletin and modification program requirements for owner/operators. The ballot was still open at the end of the reporting period.
April 2023	ASTM F747	Ballot F24(23-1), item 1, proposes to add an appendix and flowchart guide for developing terms. The ballot was still open at the end of the reporting period.

Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM F24 committee meeting in October 2023.

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 Lim, Han

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

**Standard(s)
Update**

In March 2023, SVIA published ANSI/SVIA 1-2023, *American National Standard for Four Wheel All-Terrain Vehicles (ATVs)*. This revision included new performance requirements to address fire and burn hazards associated with fuel system components and hot surfaces and editorial updates.

**Relevant
Rulemaking**

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

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 fire and debris-penetration hazards associated with off-highway vehicles (OHVs).

For Fiscal Year 2023, staff will present a draft NPR briefing package to address fire hazards associated with ATVs, ROVs, and UTVs for Commission consideration. While the current 2023 edition of the ANSI/SVIA-1 standard contains performance requirements to address fire and burn hazards associated with fuel system components and hot surfaces, it does not have performance requirements to address fire and burn hazards associated with electrical components.

**Activities
Summary**

Staff continues to work with SVIA to develop possible performance standard requirements to address fire hazards. During the reporting period, staff provided recommendations for the SVIA ballot. Additionally, Staff has started drafting the NPR briefing package.

Meeting(s)

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

Communication(s)

Date	Type	Summary
October 5, 2022	Letter	Staff responded to SVIA’s ballot for ANSI/SVIA-1 2023 with recommendations.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
February 2023	ANSI/SVIA-1	SVIA published a canvas ballot for numerous proposed standard requirements for the ANSI/SVIA-1-202x standard to address fire hazards associated with ATVs. Staff provided several recommendations. The ballot passed.

Next Action

Staff will deliver a draft NPR briefing package for ATV, ROV, and UTV Fire Hazards and draft NPR and final rule briefing packages for the revised ANSI/SVIA-1 standard to update the CPSC mandatory standard for Commission consideration.

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)	Standard Specification for Bicycle Grips

Standard(s) Update In February 2023, ASTM published ASTM F2793-14(2023), *Standard Specification for Bicycle Grips*. This action reapproved the 2014 standard with no changes.

Relevant Rulemaking 16 CFR part 1512 *Requirement for Bicycles*

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 reviewed a ballot item.

Meeting(s) Staff attended the ASTM F08.10 Bicycles subcommittee meeting, where task groups for children's bicycle handlebars, front mount accessories, and forks gave updates on their progress. Staff will participate in a new task group for lighting requirements.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	December 2022	ASTM F2793	Ballot F08(22-06), item 1, proposed to renew the 2014 standard with no changes. The item passed.

Next Action Staff will participate in upcoming subcommittee meetings in May 2023.

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 Valliere, Rodney

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 Rulemaking 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.

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

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

Ballot(s) There were no 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 16 CFR part 1262, *Safety Standard for Magnets*

Rulemaking

Activities Summary Staff continued to work with ASTM F15.77 to improve the safety of magnet sets. During the reporting period, staff participated in meetings and provided IDIs related to magnet ingestions.

Meeting(s) Staff participated in two subcommittee meetings, where the subcommittee worked to identify a path forward for the standard and discussed a legal challenge to the CPSC magnet rule.

Communication(s)

Date	Type	Summary
12/9/2022	Data	Staff provided IDIs related to magnet ingestion of “larger” magnets.

Ballot(s) There were no 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 revise the voluntary standard to strengthen its safety provisions addressing hazards associated with home playground equipment.

Staff Contact Lee, Kevin

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 Rulemaking N/A

Activities Summary Staff continues to work with ASTM to improve playground safety by working with the home playground task groups to address slide strangulations and third-party playground accessories. During the reporting period, staff participated in subcommittee meetings.

Meeting(s) Staff participated in an ASTM F15.09 subcommittee meeting to discuss task group progress on do-it-yourself swing hanger failures and slide strangulation, an issue staff first raised with the subcommittee.

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

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

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

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 Lee, Kevin

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>

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

Relevant Rulemaking N/A

Activities Summary Staff continues to work with ASTM to improve public playground safety by working with task groups to address fall hazards from playground gliders and banister rails. 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 F14 was the best location for the F2049 standard. Several work items were opened related to fencing and playgrounds.

Staff participated in an ASTM F15.29 subcommittee meeting and task group meetings on play mounds and gliders.

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

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

Next Action Staff will participate in subcommittee meetings at the ASTM playground meetings in May 2023.

Playground Surfacing

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

Staff Contact Lee, Kevin

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</i>

	<i>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 In December 2022, ASTM F1292-22, *Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment*, was published. The revised standard was updated to harmonize with the field test standard, ASTM F3313, and clarify test requirements for reports.

Relevant Rulemaking 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 approved.

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2022	ASTM F1292	Ballot F08(22-05), item 2, proposed to update the 2018e1 standard to harmonize with the field test standard F3313 and clarify test requirements for reports. The item passed.

Next Action Staff plans to attend the next ASTM playground surfacing subcommittee meeting in May 2023.

Pools, 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	<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

Standard(s) Update The ANSI/PHTA/ICC-2, *American National Standard for Public Pool and Spa Operations and Maintenance* was approved in February 2023. Revisions included public pool chemicals, water clarity, and site test and shutdown protocols.

Relevant Rulemaking 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 reviewed a ballot.

Meeting(s) Staff participated in a PHTA-2 meeting, where the ballot results were discussed. Staff participated in several PHTA-5 meetings to discuss revisions to the standard, including pool barriers, minimum and maximum depths, slope safety, and pool finishes. The PHTA-5 subcommittee (Standard Writing Committee) drafted revisions and an upcoming ballot for the standard is anticipated in May-June 2023. Staff participated in PHTA-4 meetings, where pool ladder requirements were discussed. The PHTA-4 subcommittee (Standard Writing Committee) created revisions and will ballot the entire standard with the revisions. Staff participated in an ASTM F15.60 subcommittee meeting 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) There were no communications during the reporting period.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
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November 2022	ANSI/PHTA/ICC-2	The ballot included public pool chemicals, water clarity, and site test and shutdown protocols. The ballots passed and the standard was approved for publishing in February 2023.
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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- 2023	<i>American National Standard for Multipurpose Off-Highway Utility Vehicles</i>

Standard(s) Update In March 2023, ANSI/ROHVA 1- 2023, *American National Standard for Recreational Off-Highway Vehicles*, was published. The revisions are intended to address fire and debris penetration hazards.

In March 2023, ANSI/OPEI B71.9- 2023, *American National Standard for Multipurpose Off-Highway Utility Vehicles*, was published. The revisions are intended to address fire and debris penetration hazards.

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

The Commission published an advance notice of proposed rulemaking (ANPR) Off-Highway Vehicle (OHV) Fire and Debris Penetration Hazards (86 FR 25817), May 11, 2021.

The Commission published a notice of proposed rulemaking (NPR) Off-Highway Vehicle (OHV) Debris Penetration Hazards (87 FR 43688), July 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, staff provided data and recommendations on ballots.

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

Communication(s)	Date	Type	Summary
	October 5, 2022	Letter	Staff provided recommendations on the canvass ballot to ROHVA.
	December 1, 2022	Letter	Staff notified ROHVA and SVIA of the Commission direction to submit an NPR for fire hazards if a voluntary standard was not finalized covering these hazards by February 2023. Staff also provided recommendations for additional requirements to be added.
	March 28, 2023	Data	Staff provided ROHVA with two IDIs related to debris penetration incidents.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	November 2022	ANSI/OPEI B71.9-202x	The ballot proposed changes to the ANSI/OPEI B71.9-202x standard to address fire and debris penetration hazards. Staff abstained with comment.
	October 2022	ANSI/ROHVA 1-202X	The ballot proposed changes to the ANSI/ROHVA 1-202X standard to address fire and debris penetration hazards. Staff abstained with comment.

Next Action Staff is preparing a final rule for ROV/UTV Debris Penetration Hazards and an NPR for ATV/ROV/UTV Fire 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 F2642-08 (2015)	<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>
UL 2849, 1 st Edition	<i>Standard for Electrical Systems of eBikes</i>

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

Relevant Rulemaking N/A

Activities Summary Staff continues to work with ASTM and ULSE on existing and new safety standards for 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 requested that a UL joint working group be established to address incidents related to fire or overheating incidents with these products.

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

Staff participated in a UL STP 2849 meeting focused on functional safety for electrical safety of e-bikes.

Communication(s)

Date	Type	Summary
2/10/2023	Letter	Staff sent ULSE a request to form a joint working group under STP and STP 2849 to identify potential improvements to ANS/CAN/UL 2272 - <i>Standard for Safety for Electrical Systems for Personal Micromobility Devices</i> and ANSI/CAN/UL 2849 - <i>Standard for Safety for Electrical Systems for e-Bikes</i> to address fire and overheating incidents.

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

Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meeting scheduled in May 2023.

Sports/Recreational Headgear Sensors/Helmet and Sensors

Purpose To work with ASTM to develop and revise helmet and headgear voluntary standards, and to work with ASTM to develop a new voluntary standard for headgear sensors.

Staff Contact Dayal, Vineed

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 F2220-15	<i>Standard Specification for Headforms</i>

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

Relevant Rulemaking N/A

Activities Summary During the reporting period, staff participated in ASTM F08 and NOCSAE committee meetings.

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

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

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

Next Action Staff plans to attend the next subcommittee meetings, in May 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 Eilbert, Mark

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

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

Relevant Rulemaking 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. Staff discussed the timeline of planned revisions to ANSI/APSP/ICC 16-2017 with PHTA.

Meeting(s) Staff participated in a meeting with the PHTA Standards Consensus Committee (SCC) that discussed review plans for PHTA standards, including ANSI/APSP/ICC 16-2017. The provisional amendment to APSP-16 expired March 19, 2023. The amended requirements for storable pools will be included in the standard’s full revision, scheduled for 2024.

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

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

Next Action Staff will participate in upcoming PHTA meetings.

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 Eilbert, Mark

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 Rulemaking N/A

Activities Summary Staff maintained contact with PHTA on the planned development of PHTA-17.

Meeting(s) Staff participated in a meeting with the PHTA Standards Consensus Committee (SCC) that discussed review plans for PHTA standards, including development of PHTA-17, which is scheduled for late 2024 and will be coordinated with the review of APSP/PHTA-16.

Communication(s)

Date	Type	Summary
1/18/2023	Email	Staff offered test data to assist the PHTA-17 SWC in developing requirements for SVRS devices related to variable speed pumps.

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 tent flammability.

Staff Contact Tenney, Allyson

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>
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Standard(s) Update	The voluntary standard was not updated during the reporting period.
Relevant Rulemaking	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 the task group, including collecting and testing samples.
Meeting(s)	Staff participated in ASTM F08.22 subcommittee and task group meetings during the reporting period, providing updates on the testing program.
Communication(s)	There were no 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)	<table border="1"> <thead> <tr> <th>Designation and current version</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>ASTM F2115-19</td> <td><i>Standard Specification for Motorized Treadmills</i></td> </tr> <tr> <td>ASTM F1749-15(2020)</td> <td><i>Standard Specification for Fitness Equipment and Fitness Facility Safety Signage and Labels</i></td> </tr> <tr> <td>ASTM F2276-10(2015)</td> <td><i>Standard Specification for Fitness Equipment</i></td> </tr> <tr> <td>UL 1647, 6th Edition</td> <td><i>Motor-Operated Massage And Exercise Machines</i></td> </tr> </tbody> </table>	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>
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UL 1647, 6 th Edition	<i>Motor-Operated Massage And Exercise Machines</i>										
Standard(s)	The voluntary standards were not updated during the reporting period.										

Update

Relevant Rulemaking N/A

Activities Summary On April 26, 2021, staff sent a letter to ASTM, requesting that 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 a task group meeting.

Meeting(s) Staff participated in subcommittee and task group meetings where they presented proof of concept safety solutions for child entrapment and provided alternate requirements to those proposed by the subcommittee.

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

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2022	ASTM F2276	The ballot proposed changes to the standard to update requirements related to entrapment hazards. The item was removed from the ballot.
March 2023	ASTM F2276	The ballot proposed changes to the standard to update requirements related to entrapment hazards. The item was removed from the ballot.

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

Codes, Analytical Methods, and Labeling

Building Codes

Purpose To work with various model building codes to ensure consumer safety considerations of referenced consumer products

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	NFPA 30, 2021 Edition	Flammable and Combustible Liquid Code
	NFPA 58, 2020 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> [®]
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Standard(s) Update The voluntary standards were not updated during the reporting period.

Relevant Rulemaking N/A

Activities Summary Staff continues to participate in several NFPA model codes. During the reporting period, staff participated in an ICC Federal Code Users meeting. Staff applied to several ICC committees for the next revision cycle which will start in FY24.

Meeting(s) Staff monitored activity in an ICC Federal Code Users meeting. Staff participated in an NFPA 72 committee meeting where CO alarm installation and low frequency smoke alarm installation were discussed.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	NFPA 58	Public comments closed in preparation of the second draft of the next edition

Next Action Staff will continue to participate in the various NFPA model codes. Staff will determine which ICC and IAPMO codes are most pertinent and will participate during the next revision cycle.

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 Duque, Maricar

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 D8133-21	<i>Standard Test Method for Determination of Low Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry</i>

**Standard(s)
Update**

The voluntary standards were not updated during the reporting period.

**Relevant
Rulemaking**

N/A

**Activities
Summary**

Staff worked with the ASTM D20.70 subcommittee on analytical methods to review the status of several analytical methods. Staff volunteered to participate in an ASTM D20.70 Inter-laboratory Study (ILS) of phthalate test methods, focusing on ASTM D8133. The ILS study will begin in June 2023.

Meeting(s)

Staff monitored an ASTM D20.70 meeting during the reporting period.

Communication(s)

There were no communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
April 2023	ASTM E3208	Ballot ASTM D22(23-02) item 4 proposed to include airborne particulate and retitle the standard. The item was still open at the end of the reporting period.

Next Action Staff will participate in upcoming ASTM task group meetings or subcommittee meetings, when scheduled. Staff expects to start the ASTM D20.70 ILS work on ASTM D8133 in June 2023, then share results July 2023. The next subcommittee meeting will be in November 2023.

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 standards were not updated during the reporting period. The 2023 Edition was published on September 1, 2022.

Relevant Rulemaking 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. Staff also participated in task groups to evaluate and reach an informed technical solution to the issues raised regarding unwanted GFCI tripping on outdoor AC units and appliances, as required in the 2020 NEC Section 210.8.

Meeting(s) Staff participated in many code making panel (CMP) 2 and CMP 17 meetings and several task groups during the reporting period. Additionally, staff participated in task groups on *NEC sections 210.8(A) and 210.8(F) Ground-Fault Circuit-Interrupter (GFCI) Protection for Personnel in Dwelling Units and on Outdoor Outlets*, UL STP 101, *Standard for Leakage Current for Utilization Equipment* meetings, and UL STP 943, *Standard for Ground-Fault Circuit-Interrupters* meetings.

Communication(s)	Date	Type	Summary
	12/13/2022	Data	Staff provided publicly-available data on consumer electrocutions to the NFPA GFCI task group.

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

Next Action Staff will continue to participate in the NEC future revisions 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) Update The voluntary standard was not updated during the reporting period. The standard is under development.

Relevant Rulemaking N/A

Activities Summary During the reporting period, staff participated in ASTM F15 Ad Hoc language task group meetings and reviewed Ad Hoc language updates to multiple ASTM juvenile product standards. Staff also participated in an ANSI Z535.7 subcommittee meeting on safety information in electronic media.

Meeting(s) Staff participated in ASTM Ad Hoc language task group meetings focused on possible revisions to the recommended wording of warnings related to safe sleep for products that are not intended for infant sleep, label permanence, editorial changes to the guidance document, and a potential new warning related to the use of soft bedding on products containing restraints. Staff also participated in meetings to review the ballot results for ANSI/NEMA Z535.7.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
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January 2023	Z535.7	This was the initial ballot containing the draft proposed standard for product safety information in electronic media.
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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, scheduled for December 2023.

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

Index of Entries

A

Additive Manufacturing/3D Printing, 40
Adult Portable Bed Rails, 47
Amusement Rides, Trampoline Parks, and Adventure Attractions, 75
Artificial Intelligence, 42
ATVs (All-Terrain Vehicles), 78

B

Bassinets/Cradles, 10
Bath Tubs (Adult), 48
Batteries, Fire (High-Energy Density), 49
Batteries, Ingestion (Button), 51
Bedside Sleepers, 11
Bicycles, 80
Booster Seats, 12
Building Codes, 94

C

Candles and Candle Accessories, 52
Carbon Monoxide (CO) Alarms, 53
Carriages and Strollers, 13
Changing Products, 14
Chemical Test Methods, 95
Children's Folding Chairs and Stools, 14
Child-Resistant Packages (CRP), 33
Clothing Storage Units Tip Over, 54
Commercial Cribs, 16
Crib Bumpers, 34
Crib Mattresses (including Supplemental and After-market Mattresses), 17

E

Electric Heaters, 56

F

Fire Safety of Portable Fuel Containers and Gasoline Cans, 57
Fireworks, 80
Flammable Refrigerants, 58
Flooring (Slips, Trips, and Falls), 59
Frame Child Carriers, 17
Full-Size Cribs, 18

G

Gas Appliances, CO Sensors, 60
Gas Ranges, 61

Gasoline Containers, Child Resistance, 35
Gates and Expandable Enclosures, 19

H

Handheld Infant Carriers, 20
High Chairs, 21

I

Indoor Air Quality, 62
Infant Bath Seats, 21
Infant Bath Tubs, 22
Infant Bouncer Seats, 23
Infant Rockers, 36
Infant Sleep Products, 24
Infant Support Pillows and Nursing Support Products, 36
Infant Swings, 24
Infant Walkers, 25
Internet of Things (IoT)/Connected Products, 43

L

Lighters, 64
Liquid Laundry Packets, 64
LP Gas Appliances, 65

M

Magnet Sets, 81
Market Umbrellas/Beach Umbrellas, 66
Mowers, 67

N

Nanotechnology, 43
National Electrical Code, 97
Non-Full-Sized Cribs and Play Yards, 26

P

Playground Equipment, Home, 82
Playground Equipment, Public, 83
Playground Surfacing, 84
Pools, Portable Unprotected (Child Drowning), 85
Portable Bed Rails (Children's), 28
Portable Generators, 69
Portable Hook-On Chairs, 29
Pressure Cookers, 69

R

Recliners, 70
Recreational Off-Highway Vehicles (ROVs), 87

S

Self-Balancing Scooters and Light Electric Vehicles,
88
Service, Communication, Information, Education, and
Entertainment (SCIEE) Robots, 45
Sling Carriers (Infant and Toddlers), 29
Smoke Alarms, 71
Soft Infant and Toddler Carriers, 30
Sports/Recreational Headgear Sensors/Helmet and
Sensors, 90
Stationary Activity Centers, 31
Swimming Pools/Spas, Drain Entrapment, 90

Swimming Pools/Spas, Vacuum Relief System, 91

T

Table Saws, 72
Tents, 92
Toddler Beds, 32
Torch Fuel and Lamp Fuel, 72
Toys, 37
Treadmills, 93

W

Warning Signs and Labels (and Ad Hoc Language), 98
Washing Machines, 73
Wearable Infant Blankets, 39
Wearables, 46
Window Coverings, 74