



Memorandum

DATE: December 20, 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 Annual
Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Fiscal Year 2023 (FY 2023) Annual Voluntary Standards Tracking and Access Report (VSTAR), covering the period October 1, 2022 through September 30, 2023. If you have any questions, please contact Jacqueline Campbell at: jcampbell@cpsc.gov or VoluntaryStandards@cpsc.gov.



United States
Consumer Product Safety Commission
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Memorandum



United States
Consumer Product Safety Commission

Voluntary Standards Tracking and Access Report

FY 2023 Annual REPORT

October 1, 2022–September 30, 2023

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

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CPSC Voluntary Standards Activities: October 1, 2022–September 30, 2023

Introduction

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

VSTAR Content and Organization

The Voluntary Standards Tracking and Access Report (VSTAR) is issued biannually as: (1) a Midyear Report, covering October 1 through March 31, and (2) an Annual Report of the CPSC fiscal year, which covers October 1 to September 30. This document is the Fiscal Year 2023 (FY 2023) Annual 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, which implemented the FY 2023 CPSC Operating Plan (Op Plan). The FY 2023 Op Plan lists 86 different products, product areas, or hazards for which staff planned to be actively involved in developing voluntary standards during the fiscal year. The voluntary standards covered in this report address potential hazards associated with consumer products found in homes, schools, and recreation areas. More than 40 different staff serve as designated representatives (DRs) for the 86 categories outlined in this report.

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

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

Each VSTAR entry includes the following information:

Purpose:	The purpose of staff's involvement with the voluntary standard(s).
Staff Contact:	The name of staff leading the activity (<i>i.e.</i> , the DR).
Voluntary Standard(s):	The designation(s) and name(s) of existing voluntary standards, potential new voluntary standards, and ISO standards associated with the product, with which staff is, was, or may be actively involved. The designation and titles for new or updated voluntary standards are in bold font . Titles for current voluntary standards are in <i>italics</i> , and titles of draft or potential standards are in plain font (not bold and non-italicized).
Standard(s) Update:	Any updates to the voluntary standards or potential new voluntary standards with staff's participation.
Relevant 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 41 new, revised, or renewed voluntary standards that staff actively engaged in revising or developing, and that were published during the period October 1, 2022 to September 30, 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	ULSE	October 2022	Brookman, M.	Revision
UL 217 9th edition Standard for Single and Multiple Station Smoke Alarms	ULSE	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	ULSE	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 Expansion Gates and Expandable Enclosures	ASTM	January 2023	Torres, C.	Revision
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	ULSE	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	ULSE	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
D8133-23 - Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry	ASTM	April 2023	Mordecai, B.	Revision
UL 8400 Virtual Reality, Augmented Reality and Mixed Reality Technology Equipment	ULSE	April 2023	Thomas, T.	New
UL 0499 - 14th Ed (2023) Electric Heating Appliances	ULSE	May 2023	Lee, A.	Revision
F3429/F3429M-23 Standard Specification for Performance of Flame Mitigation Devices Installed	ASTM	May 2023	Ayers, S.	Revision

in Disposable and Pre-Filled
Flammable Liquid Containers

ASTM F3096-23 Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)	ASTM	May 2023	Talcott, K.	Revision
UL 2904 Ed. 2 Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers	ULSE	May 2023	Thomas, T	Revision
CSA/ANSI Z21.89-23/CSA 1.18-2023 Outdoor cooking specialty gas appliances	CSA	June 2023	Ayers, S.	Revision
NFPA 30 Flammable and Combustible Liquids Code	NFPA	June 2023	Ayers, S	Revision
ASTM F770-23 Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices.pdf	ASTM	June 2023	Taxier, D.	Revision
F1193-23 Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices.pdf	ASTM	July 2023	D. Taxier	Revision
F2291-23 Standard Practice for Design of Amusement Rides and Devices.pdf	ASTM	July 2023	Taxier, D.	Revision
F2641-23 - Standard Consumer Safety Specification for Recreational Powered Scooters and Pocket Bikes	ASTM	August 2023	Mella, L.	Revision
ASTM F2417-23 Standard Specification for Fire Safety for Candles.pdf	ASTM	August 2023	Ayers, S.	Revision
UL 4200A Ed. 1 Products Incorporating Button Cell Batteries of Lithium and Similar Technologies	ULSE	August 2023	Le, H.	Revision
UL 943 Ed. 5 Standard for Safety for Ground-Fault Circuit-Interrupters	ULSE	September 2023	Lee, D.	Revision
ASTMF2276-23 Standard Specification for Fitness Equipment	ASTM	September 2023	Newens, A.	Revision
ASTM F3660-23 Standard Consumer Safety Performance Specification for Motorized Partitions.pdf	ASTM	September 2023	D. Taxier	New
ASTM F2291-23b Standard Practice for Design of Amusement Rides and Devices.pdf	ASTM	September 2023	D. Taxier	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
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 CSUs
Mordecai, B.	January 2023	New	Voting	ASTM F963 Toys
Lee, A.	April 2023	New	Leadership	Portable Electric Heaters WG Chair (Includes UL 1278 and UL 1042)
Goldstein, Z.	April 2023	New	Leadership/Voting	ASTM F1967 Infant Bath Seats Task Group Chair
Buyer, J.	April 2023	New	Voting	PGMA G300 Canvass Committee
Phillips, K.	May 2023	New	Voting	ASTM F15.19 Wearable Infant Blankets
Ayers, S.	April 2023	Renewal	Voting	ASTM F2517 Child Resistance of Portable Fuel Containers
Ayers, S.	April 2023	Renewal	Voting	ASTM F852 Specification for Portable Gasoline, Kerosene, and Diesel Containers
Ayers, S.	April 2023	Renewal	Voting	ASTM F3326 Flame Mitigation

Ayers, S.	April 2023	Renewal	Leadership/Voting	Devices on Portable Fuel Containers ASTM F3429 Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers
Ayers, S.	April 2023	Renewal	Voting	ASTM F2874 One Time Use Portable Emergency Fuel Containers (PEFC)
Ayers, S.	April 2023	New	Voting	ASTM F839 Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers
Smith, T.	June 2023	Renewal	Voting	ANSI Z535 Safety Colors and Signs

FY 2023 Voluntary Standards Activities Summary

Children's Products and Hazards

Durable Infant and Toddler Products

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

Bassinets/Cradles

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

Staff Contact Kish, Celestine

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

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

Relevant 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 a Notice of Proposed Rulemaking (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 participated in task group meetings on bassinet and cradle scope, performance requirements, sleeping pads and latching, and cantilevered bassinets; proposed requirements for addressing the hazard of bassinet use on elevated surfaces; 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, a revision the Commission subsequently rejected.

Meeting(s)

Staff participated in an ASTM F15.18 subcommittee meetings to discuss Commission activity and task group updates.

Staff participated in task group meetings to discuss issues related to cantilevered and compact bassinets, 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.
4/27/2023	Letter	Staff proposed requirements to address the use of bassinets on elevated surfaces.
9/7/2023	Letter	Staff provided additional information related to requirements to address the use of bassinets on elevated surfaces.

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 November 2023. Staff expects to present to the Commission in the next reporting period an NPR briefing package to update the standard.

Bedside Sleepers

Purpose

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

Staff Contact

Kish, Celestine

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2906-23	<i>Standard Consumer Safety Specification for Bedside Sleepers</i>

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*. The Commission accepted this update as the new standard in 16 CFR part 1222.

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

The mandatory standard was updated on May 9, 2023 [88 FR 29820], with an effective date of August 5, 2023.

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 subcommittee meetings. Staff worked with the subcommittee to develop balloted language that would not negatively impact safety.

Meeting(s) Staff participated in subcommittee meetings to review ballot results and update the subcommittee on the agency’s progress in revising the standard to include new language to address an unintended exemption.

Communication(s)	Date	Type	Summary
	10/13/2022	Data	Staff provided the subcommittee with 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.
	5/23/2023	Letter	Notification of the regulatory update.

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, when scheduled.

Booster Seats

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

Staff Contact Kish, Celestine

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

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

Relevant 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. During the reporting period, staff provided incident data to the subcommittee.

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

Communication(s)	Date	F	Type	Summary
	7/13/2023		Data	Staff provided an incident data review for the period 11/12/2019-11/02/2022.

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

Staff Contact Talcott, Kristen

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

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

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

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

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

Communication(s)	Date	Type	Summary
	9/7/2023	Letter	Staff provided an incident data review for the period 7/16/2017-7/31/2022.

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

Staff Contact Mella, Lawrence

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

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

Relevant 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. Staff provided the subcommittee with an annual data review.

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

Communication(s)

Date	Type	Summary
9/12/2023	Data	Staff provided the subcommittee with incident data for changing products from 3/17/2021-11/7/2022.

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

Staff Contact 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 to ASTM F2613-21 in the mandatory 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 subcommittee and task group meetings, provided data,

commented on a ballot, and made a recommendation on changing the exemption for children’s stools.

Meeting(s)

Staff participated in subcommittee meetings where staff briefed the group on the Commission determination to retain the previous reference and provided a recommendation on exemption language and continued to advocate for keeping folding step stools in scope. Staff participated in several task group meetings on scope and “standing tower” products.

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 incident data for children’s chairs and stools from 12/4/2021-12/5/2022.
4/5/2023	Data	Staff provided a redacted IDI for a death associated with a children’s folding chair.
4/13/2023	Data	Staff provided incident data associated with standing towers.
4/21/2023	Letter	Staff voted affirmative and provided supportive comments on ballot F15(23-04), item 1, to removing the exemption for step stools.

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.

Next Action

Staff will participate in upcoming subcommittee meetings in November 2023 and work with the subcommittee to establish safety improvements in the standard.

Commercial Cribs

Purpose

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

Staff Contact Taxier, Daniel

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

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

Relevant 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)	Date	Type	Summary
	9/1/2023	Data	Staff provided the subcommittee with incident data for commercial cribs from 8/16/2022 through 8/15/2023.

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

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

Crib Mattresses (including Supplemental and After-market Mattresses)

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

Staff Contact Taxier, Daniel

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

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

Relevant 16 CFR part 1241, *Safety Standard for Crib Mattresses*

Rulemaking 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 the progress of 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 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 on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with frame child carriers.

Staff Contact Taxier, Daniel

Voluntary Standard(s)

Designation and current version	Title
ASTM F2549-22	Standard Consumer Safety Specification for Frame Child Carriers

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. During the reporting period, staff provided summary 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
	7/7/2023	Data	Staff provided the subcommittee with a summary of incident data for frame child carriers from 6/10/2022 through 6/8/2023.

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. During the reporting period, staff provided the subcommittee with redacted IDIs.

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

<i>Communication(s)</i>	Date	Type	Summary
	4/4/2023	Data	Staff provided the subcommittee with redacted IDIs associated with fatal crib entrapments.

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

Staff Contact Torres, Carlos

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

Standard(s) Update The revision to ASTM F1004-23 consisted of a clarification regarding wall cup warnings. ASTM has not notified the Commission of this 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 meetings to discuss ballot results on wall cup warnings and third-party accessory concerns and CPSC-provided data.

Communication(s)	Date	Type	Summary
	10/13/2022	Data	Staff provided the subcommittee with 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 to the -22 version.

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

Next Action Staff will participate in upcoming subcommittee meetings in November 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. During the reporting period, staff provided the subcommittee with incident data.

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

Communication(s)	Date	Type	Summary
	8/2/2023	Data	Staff provided the subcommittee a summary of the annual incident data for handheld carriers from 6/10/2022 through 5/31/2023.

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

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

High Chairs

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

corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with high chairs.

Staff Contact Marques, Stefanie

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

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

Relevant 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. During the reporting period, staff provided the subcommittee with incident data.

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

Communication(s)	Date	Type	Summary
	8/23/2023	Data	Staff provided the subcommittee with a summary of incident data for high chairs from 11/5/2021 through 11/1/2022.

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

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

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
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ASTM F1967-19	<i>Standard Consumer Safety Specification for Infant Bath Seats</i>
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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 subcommittee and led task group meetings 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. Staff attended another subcommittee meeting and led multiple task group meetings, leading to draft ballot language.

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

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

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

Infant Bath Tubs

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

Staff Contact Foster, Zachary

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

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

Relevant 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 the collapse of infant bath tubs. During the reporting period, staff participated in subcommittee and task group meetings and provided incident data to the subcommittee.

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

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 November 2023.

Infant Bouncer Seats

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

Staff Contact Wanna-Nakamura, Suad

Voluntary Standard(s)

Designation and current version	Title
ASTM F2167-22	Standard Consumer Safety Specification for Infant Bouncer Seats

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. During the reporting period, staff provided the subcommittee with annual incident data related to bouncer seats.

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

Communication(s)

Date	Type	Summary
1/20/2023	Letter	Staff provided ASTM with notification of Commission incorporation of the new standard in the regulation.
7/24/2023	Data	Staff provided the subcommittee with a summary of the annual incident data related to bouncer seats from 4/18/2022 to 4/6/2023.

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

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

Infant Sleep Products

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with 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 and staff delivered a briefing package to the Commission to support a ban of inclined sleepers for infants pursuant to the Safe Sleep for Babies Act of 2021. The Commission approved the ban.

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

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

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

Next Action No next actions are planned at this time.

Infant Swings

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

Staff Contact Torres, Carlos

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2088-22	<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 subcommittee and task group meetings on swing strangulation hazards and notified the subcommittee of the update to the regulation.

Meeting(s) Staff participated in subcommittee and task group meetings 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.

<i>Ballot(s)</i>	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	June 2023	ASTM F2088	Ballot F15(23-09), item 2, addressed requirements associated with tethered straps. The item received multiple negative votes and comments and was unresolved at the end of the reporting period.

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

Infant Walkers

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

Staff Contact Mordecai, Ben

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

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

Relevant 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 and provided the subcommittee with incident data associated with walkers.

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

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

4/4/2023	Data	Staff provided the subcommittee with a summary of incident data related to walkers from 3/8/2021 to 3/2/2023.
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Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings, scheduled for November 2023.

Non-Full-Sized Cribs and Play Yards

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

Staff Contact DeGrano, Frederick

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

Standard(s) Update 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; and scope, to account for products intended for play only and not for sleep. The Commission determined that the voluntary standard did not improve the safety of play yards and retained the existing reference to ASTM F406-19 in the mandatory rule for play yards. However, the Commission determined that the revised voluntary standard did improve the safety of non-full-size cribs and updated the mandatory standard for non-full-size cribs to incorporate by reference ASTM F406-22.

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 continues to reference the -19 version.

Activities Summary

Staff continues to work with the ASTM F15.18 subcommittee on safe sleep issues related to non-full-size baby cribs and play yards. During the reporting period, staff participated in a subcommittee meeting, voted on a ballot, provided suggested improvements to the voluntary standard, provided briefing packages to the Commission on the latest revision 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 subcommittee meetings where the subcommittee discussed results of ballot items, a proposed warning pictogram (which resulted in the formation of a task group), and progress of task groups. Staff also participated in task group meetings for developing pictogram warning labels, requirements for products with padded floors, performance requirements mattress perimeter gaps, and ad hoc language.

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 IDs 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.
4/18/2023	Letter	Staff notified ASTM of the Commission's incorporation of the revision ASTM F406-22 into 16 CFR part 1220.
8/10/2023	Letter	Staff provided comments on ballot F15(23-11), item 1, with their abstention vote.
8/30/2023	Data	Staff provided the subcommittee with a summary of incidents associated with play yards for the period 8/1/2022 through 6/30/2023.
8/30/2023	Data	Staff provided the subcommittee with a summary of incidents associated with non-full-size cribs for the period 8/16/2022 through 8/15/2023.

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.
August 2023	ASTM F406	Ballot F15(23-11), item 1, proposed to remove the previously balloted requirements for mattresses 1.5-2.0 inches in thickness and reverts back to language in the -19 version of the standard. The item received some negative votes and was unresolved at the end of the reporting period.

Next Action

Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting, scheduled in November 2023.

Portable Bed Rails (Children’s)

Purpose

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

Staff Contact

Taxier, Daniel

Voluntary Standard(s)

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

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

Relevant 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. During the reporting period, staff provided the subcommittee with a summary of incident data.

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

Communication(s)

Date	Type	Summary
8/23/2023	Data	Staff provided the subcommittee with a summary of incident data related to portable bed rails from 4/14/2022 to 4/5/2023.
9/6/2023	Data	After reviewing associated IDIs, staff provided the subcommittee with additional information on the summary of incident data related to portable bed rails from 4/14/2022 to 4/5/2023.

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

Staff Contact Mella, Lawrence

Voluntary Standard(s)

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

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

Relevant 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. During the reporting period, staff provided the subcommittee with summary incident data.

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

Communication(s)

Date	Type	Summary
9/12/2023	Data	Staff provided the subcommittee with a summary of incident data related to portable hook-on chairs from 11/15/2021 to 11/2/2022.

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

Staff Contact Foster, Zachary

Voluntary Standard(s)

Designation and current version	Title
ASTM F2907-22	Consumer Safety Specification for Sling Carriers

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 and provided the subcommittee with incident data.

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 is to ensure that they increase safety.

<i>Communication(s)</i>	Date	Type	Summary
	4/19/2023	Data	Staff provided the subcommittee with a spreadsheet of incident data related to sling carriers from 1/1/1999 to 12/31/2022.
	9/21/2023	Data	Staff provided the subcommittee with a summary of incident data related to sling carriers from 1/1/2023 to 6/6/2023.

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

Staff Contact Foster, Zachary

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

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

Relevant 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. During the reporting period, staff provided the subcommittee with incident data.

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

<i>Communication(s)</i>	Date	Type	Summary
	4/19/2023	Data	Staff provided the subcommittee with a spreadsheet of incident data related to soft infant carriers from 1/1/1999 to 12/31/2022.
	9/21/2023	Data	Staff provided the subcommittee with a summary of incident data related to soft infant carriers from 1/1/2023 to 6/6/2023.

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

Staff Contact Taxier, Daniel

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

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

Relevant 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 task group reports. Staff also participated in several task group meetings to address concerns with secondary support systems and warning labels.

<i>Communication(s)</i>	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.
7/7/2023	Data	Staff provided the subcommittee with an IDI related to a seat strap breaking.

Ballot(s)

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, when scheduled.

Toddler Beds

Purpose

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

Staff Contact

Kish, Celestine

Voluntary Standard(s)

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

Standard(s) Update

The voluntary standard was not updated during the reporting period.

Relevant 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 D3474-90(2018)	<i>Standard Practice for Calibration and Use of Torque Meters Used in Packaging Applications</i>
	ASTM D3475-20	<i>Standard Classification of Child-Resistant Packages</i>
	ASTM D7860 – 14 (2022)	<i>Standard Test Methods for Measurement of Torque Retention for Child Resistant and Non-Child Resistant Packages with Continuous Thread Closures Using Automated Torque Testing Equipment</i>

Standard(s) Update In October 2022, ASTM D7860 – 14(2022) was reapproved.

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 meeting where the subcommittee discussed the inclusion of seal separation mode graphics into F17-20 Standard Terminology Relating to Primary Barrier Packaging was proposed. Staff reviewed two standards related to child resistant packages that were balloted and reapproved: ASTM D3474 and ASTM D7860.

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

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

Next Action Staff will participate in upcoming subcommittee meetings in November 2023. Staff will review ballots, when issued.

Crib Bumpers (Infant Bedding)

Purpose To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing 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 On August 14, 2023, the Commission published the final rule for 16 CFR part 1309, *Ban of Crib Bumpers* [88 FR 54879], with an effective date of September 13, 2023.

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

Communication(s)	Date	Type	Summary
	9/1/2023	Letter	Staff provided the subcommittee with comments on ballot F15(23-12).

Ballot(s)	Date Closed	Voluntary Standard	Summary and Results (If Applicable)
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July 2023	N/A	Ballot F15.19(23-01), item 1, proposed a new standard test method for firmness of infant bedding. There were multiple negatives and comments and the item was removed from the ballot.
September 2023	N/A	Ballot F15(23-012), item 1, proposed a new standard test method for firmness of infant bedding, updated from the previous ballot. There were multiple negatives and comments and the item was removed from the ballot.

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

Gasoline Containers, Child Resistance

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

Staff Contact Ayers, Scott

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

Standard(s) Update The voluntary 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. The Commission also directed staff to evaluate the safety impact of the recently approved changes and seek continual improvement of the standard within ASTM.

Activities Summary Staff continues to work with the ASTM F15.10 subcommittee on child resistance of gasoline containers. During the reporting period, staff participated in a staff group meeting.

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.

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 Foster, Zachary

Designation and current version	Title
ASTM F3084-22	Standard Consumer Safety Specification for Infant and Infant/Toddler Rockers

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

Relevant Rulemaking Staff delivered a draft NPR to the Commission on September 13, 2023.

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 and sent a letter to the subcommittee with recommended changes to the standard. Staff also participated in a subcommittee meeting and several task group meetings.

Meeting(s) Staff participated in a subcommittee meeting where the subcommittee voted to move rockers from the F15.18 to F15.21 subcommittee, staff's recommendations were discussed, and forward stability requirements were considered, resulting in the formation of a task group. Staff participated in multiple task group meetings related to staff's recommendations and restraint systems.

Date	Type	Summary
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4/25/2023	Letter	Staff provided the subcommittee with recommendations for the standard.
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Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting, scheduled November 2023. Staff is expected to deliver a final rule briefing package to the Commission in 2024.

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 On September 26, 2023, the Commission published an NPR for a *Safety Standard for Nursing Pillows* [88 FR 65865]. At the end of the reporting period, staff was developing a draft NPR for Commission consideration for infant support cushions.

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, including reviewing data, proposing requirements, and providing comments on standard drafts and ballots.

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.

<i>Communication(s)</i>	Date	Type	Summary
	4/17/2023	Letter	Staff provided the subcommittee with comments on ballot F15.16(23-01), item 1.
	8/18/2023	Letter	Staff provided the subcommittee with comments on the draft standard for infant loungers.
	9/19/2023	Letter	Staff provided the subcommittee with comments on ballot F15(23-013), item 2.

<i>Ballot(s)</i>	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 item received multiple negatives and comments and was removed from the ballot.
	September 2023	ASTM WK82241	Ballot F15 (23-13), item 2, proposed the new standard for infant feeding products. The item received multiple negatives and comments and was removed from the ballot.

Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meetings, scheduled in November 2023. Staff will also continue work on rulemaking efforts for these products.

Toys

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

Staff Contact Mordecai, Benjamin

Voluntary Standard(s)	Designation and current version	Title
	ASTM F963-17	<i>Standard Consumer Safety Specification for Toy Safety</i>
	ASTM D8133-23	<i>Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction-Gas Chromatography/Mass Spectrometry</i>

ASTM F1313-90 (2011)	<i>Standard Specification for Volatile N-Nitrosamine Levels in Rubber Nipples on Pacifiers</i>
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Standard(s) Update

In April 2023, ASTM D8133-23, *Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry* was revised. Minor changes were made to account for variation permissibility with the gas chromatograph (GC) parameters.

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 including water beads, ride on toys and battery-powered toys. 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 participated in an interlaboratory study (ILS) for ASTM D8133-23. The purpose of the ILS is to determine the Precision and Bias statement for ASTM D8133-23 (both Methods A and B). Several laboratories, including the CPSC, participated and provided data for both Method A and Method B in Q3 of 2023.

Meeting(s)

Staff attended several ISO TAG meetings, including plenary and multiple working group (WG) meetings. Staff also attended ASTM F15.22 subcommittee meetings and task group meetings on aquatic toys, and emerging hazards, which included discussion of expanding materials (water beads) and ride-on toys. Staff also attended several ASTM D20.70 subcommittee meetings and task group meetings on Analytical Methods to discuss participation in the ILS for ASTM D8133.

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

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.
6/20/2023	Letter	Staff provided the subcommittee with additional data associated with expanding materials and water beads.
7/18/2023	Data	Staff provided additional data to the subcommittee on water bead-related incidents.

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 passed.
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 passed.
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 passed.
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 passed.
April 2023	ASTM D8133	Ballot D20(23-01) proposed updates to GC/MS conditions to incorporate minor

		changes to account for variation permissibility with the gas chromatograph (GC) parameters. The ballot item was approved.
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Next Action Staff will participate in upcoming ASTM task group meetings and subcommittee meetings, when scheduled. The ASTM D20.70 subcommittee on analytical methods will meet in Spring 2024 to complete the review of the data obtained from the ILS for ASTM D8133-23.

Wearable Infant Blankets

Purpose To work with ASTM to establish a voluntary standard addressing hazards associated with wearable blankets, swaddles, transition swaddles, modular components that alter functionality, and products with added weight used by infants and toddlers for sleep.

Staff Contact Phillips, Khalisa

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

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

Relevant Rulemaking N/A

Activities Summary Staff continued working with the ASTM F15.19 subcommittee to develop a draft standard for ballot to address suffocation, strangulation, and other potential hazards associated with wearable blankets (sleepsacks), swaddles, and weighted products used by infants and toddlers during sleep. During the reporting period, staff participated in several subcommittee and task group meetings, reviewed one administrative ballot item, and provided wearable blanket incident data. Staff initiated a market scan of products potentially subject to the draft standard to better understand the range of designs, textiles used, and types of fill materials to add warmth, and / or weighted features. The activity was still ongoing at the end of the reporting period.

Meeting(s) Staff participated in three ASTM F15.19 subcommittee meetings and dozens of task group meetings to develop a draft standard for ballot. Task groups' meetings focused on scope, performance requirements, data, and warnings. Staff participated in extensive discussions regarding weighted wearable infant sleep products and their safety.

Communication(s)

Date	Type	Summary
4/21/2023	Data	Staff provided the subcommittee with incident data related to wearable infant blankets for the period 1/1/2011 through 2/14/2023.
8/9/2023	Data	Staff provided the subcommittee with IDIs for the time period spanning 2020-2023.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2023	WK81176	Ballot F15.19(23-02), was an administrative ballot regarding the scope of the standard. The ballot item was still open at the end of the reporting period.

Next Action Staff will participate in the next subcommittee meeting, scheduled in November 2023, and any additional task group meetings. Staff will provide a summary of the market scan before the next ASTM F15.19 subcommittee meeting.

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

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 Standards Technical Panel (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 formal 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 edition 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 will continue to participate in meetings to work on enhancements to the standard.

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 formal communications during the reporting period.

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

Next Action Staff plans to participate in the next UL STP 4600 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 In April 2023, ULSE published UL 2900-1 Ed. 1, *Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements*. The voluntary standard was revised to clarify product documentation, definitions, software testing and analysis requirements, and to update reference material.

Relevant Rulemaking N/A

Activities Summary CPSC staff continues to work to improve the safety of connected consumer products. Toward this goal, during the reporting period staff participated in UL STP 2900-1 and ASTM F15.75 meetings.

Meeting(s) Staff participated in UL 2900-1 STP meetings covering glossary terms, software source code and weaknesses, quality measurements, and testing. Staff also participated in an ASTM F15.75 Subcommittee meeting on Artificial Intelligence (AI) considerations in connected products. The Subcommittee on the Safety of Connected Consumer Products formed a Task Group (TG) for AI, which staff participated in task group meetings.

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

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

Next Action Staff plans to continue to participate in STP and TG meetings, including the next ASTM F15.75 meeting in December 2023. Staff will continue to monitor and participate in other applicable IoT voluntary standards, federal agency, industry, partner workshops and CPSC projects.

Nanotechnology

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

Staff Contact Matheson, Joanna

Voluntary Standard(s)

Designation and current version	Title
ASTM E3025-22	<i>Standard Guide for Tiered Approach to Detection and Characterization of Manufactured Silver Nanomaterials in Textiles</i>
ASTM E2525-22	<i>Standard Test Method for Evaluation of the Effect of Nanoparticulate Materials on the Formation of Mouse Granulocyte-Macrophage Colonies</i>
ASTM E3171-21	<i>Standard Test Method for Determination of Total Silver in Textiles by ICP-OES or ICP-MS Analysis</i>
ASTM E3238-20	<i>Standard Test Method for Quantitative Measurement of the Chemoattractant Capacity of a Nanoparticulate Material in vitro</i>
ASTM WK60553	Potential new voluntary standard for evaluation of nanoparticulate material internalization by phagocytic cells in vitro
ASTM E3351-22	<i>Standard Test Method for Detection of Nitric Oxide Production In Vitro</i>
ISO/TS 13830:2013	<i>Nanotechnologies — Guidance on voluntary labelling for consumer products containing manufactured nano-objects</i>
ISO/TS 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 participated in ASTM E56 committee meetings where, among other items discussed, staff participated in discussions on revising ASTM E2525.

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

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 ULSE 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, including providing comments on the draft standard.

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

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

Next Action Staff will participate in upcoming STP and task group meetings and expects a final draft to be published in early 2024.

Wearables

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

Staff Contact Thomas, Treye

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

Standard(s) Update On April 28, 2023, ULSE published the new standard UL 8400 Ed. 1 - *Virtual Reality, Augmented Reality and Mixed Reality Technology Equipment*.

Relevant Rulemaking N/A

Activities Summary Staff continued to work with the ULSE to improve UL 8400. 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 supported the development of the first edition of UL 8400, participating in regular, reoccurring STP and task group meetings. After

the ballot closed, staff participated heavily in STP discussions reviewing the ballot comments, and staff recommended ways to improve the draft standard. Once the standard was published, staff participated in frequent STP and task group meetings to improve the sections on age requirements, transmittance, biomechanical stress, biocompatibility, safety and warning instructions, functional safety, and general requirements, among others, in preparation for the upcoming second edition of the standard.

<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 passed.

Next Action Staff will continue to participate in STP meetings and efforts to improve the standard. Staff plans to provide the STP with incident data.

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 On November 9, 2022, the Commission published an NPR, *Safety Standard for Adult Portable Bed Rails* [87 FR 67586]. On July 21, 2023, the Commission published the final rule 16 CFR part 1270, *Safety Standard for Adult Portable Bed Rails*, [88 FR 46958] with an effective date of August 21, 2023.

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 subcommittee meetings, multiple revision task groups, and briefed the group on agency activities.

Meeting(s) Staff participated in 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 formal communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2023	F3186	Ballot F15(23-03), items 4 and 5, proposed to make modifications to language for clarity. The ballot item was unresolved at the end of the reporting period.
August 2023	F3186	Ballot F15(23-11), items 2-7, proposed to make changes to the standard to better align the standard with 16 CFR part 1270. 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.

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)	Consumer Safety Specification for Slip-Resistant Bathing Facilities

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). Staff provided the task group with reports summarizing results of ASU/FORCONN contract work on tribology methods and human slip study.

Meeting(s)

Staff participated in task group meetings 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 formal communications during the reporting period

Ballot(s)

There were no ballots during the reporting period.

Next Action

Staff will participate in the next ASTM subcommittee meeting, scheduled for October 2023.

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 NEMA and ULSE on improving the overall safety of the battery powered products with primary focus on e-mobility devices, including e-bikes, and their battery chargers. 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 draft *NEMA Recommended Practices Guide for Lithium Ion Cells and Batteries*, which was registered with ANSI as a Technical Report (TR) on April 3, 2020 and is being developed in accordance with the Procedures for the Registration of Technical Reports with ANSI.

Staff, consistent with the positions of Health Canada and PROFECO, requested that ULSE develop OOI 2056 into a trinational safety standard covering power banks. ULSE agreed and initiated activities to transition OOI 2056 to a binational standard as PROFECO is not able to participate at this time. Staff requested that ULSE develop a working group to improve safety for UL 2271, ANSI/CAN/UL 2272, and ANSI/CAN/UL 2849 and staff participated in the working group.

Communication(s)

Date	Type	Summary
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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.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2023	UL 2056	The ballot proposed the first draft of the standard. The ballot had not been resolved at the end of the reporting period.

Next Action

Staff will participate in ULSE meetings, when scheduled. Staff will participate in activities to transition OOI 2056 to a trinational standard. Staff will participate in the e-mobility device and e-bike working group to improve battery safety in those relevant standards. Staff will continue to collaborate on the NEMA Recommended Practices Guide for Lithium Ion Cells and Batteries.

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 (2023)	Standard for Safety for Products Incorporating Button Batteries or Coin Cell Batteries
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**

On August 15, 2023, ULSE published the revised standard ANSI/UL 4200A-2023, *Standard for Safety for Products Incorporating Button Batteries or Coin Cell Batteries (UL 4200A)*. On August 30, 2023, ULSE published another revision of UL 4200A.

**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 one year after the date of enactment. The law also establishes a child-resistant packaging standard for button cell or coin battery packaging. On September 21, 2023, the Commission published and amended 16 CFR part 1263, *Safety Standard for Button Cell or Coin Batteries and Consumer Products Containing Such Batteries* [88 FR 65274 and 88 FR 65296], which incorporates by reference UL 4200A (published August 30, 2023) with an effective date of October 23, 2023 (enforcement discretion date through March 19, 2024), and establishes battery package labeling requirements with an effective date of September 21, 2024.

**Activities
Summary**

During the reporting period, staff participated in UL STP 4200, ANSI C18, and ASTM 15.22 meetings on battery accessibility.

Meeting(s)

Staff participated in NEMA/ANSI C18 and UL STP 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)

Date	Type	Summary
6/12/2023	Letter	Staff provided recommendation for revisions to UL 4200A based on the NPR.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
August 2023	UL 4200A	The ballot proposed changes to the standard to align with the NPR. The ballot item passed.

Next Action Staff will continue participation in NEMA/ANSI C18 standards meetings and other related button and coin cell battery standards, including UL 4200A and ASTM F963, as needed.

Candles and Candle Accessories

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

Staff Contact Ayers, Scott

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

Standard(s) Update In August 2023, ASTM published the latest revision to the *Standard Specification for Fire Safety for Candles*, ASTM F2417-23. This revision adds requirements for wick stability and nonmandatory information on candle making kits, glass containers, and reducing end-of-life candle fires.

Relevant Rulemaking Petitions 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 formal communications during the reporting period.

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

Carbon Monoxide (CO) Alarms

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

Staff Contact Brookman, Matthew J.

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

Standard(s) Update The voluntary 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 formal 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. The contractor will complete the remaining surveys and a full report on the survey will follow.

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	Standard Safety Specification for Clothing Storage Units
	ASTM F3096-23	Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)

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.

ASTM F3096-23 was published in May 2023. This version of the standard updates the test force from 50 pounds to 60 pounds.

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 May 4, 2023, the Commission published a direct final rule, creating 16 CFR part 1261, *Safety Standard for Clothing Storage Units*, [88 FR 28403], which incorporated by reference ASTM F2057-23, and replaced the November 25, 2022 rule prior to its effective date. The new rule went into effect on September 1, 2023.

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.

<i>Communication(s)</i>	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.

<i>Ballot(s)</i>	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.

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 ULSE to improve the safety of electric heaters. During the reporting period, staff sent a letter to ULSE with the CPSC staff report, *CPSC Staff Assessment on Portable Electric Heaters*

(February 2023) asking ULSE to form a working group to address electric heaters fire hazards. ULSE formed a working group with representation from the membership of ULSE’s Technical Committee (TC) for Electric Room Heaters and Related, STP 1042, and other interested stakeholders. Staff agreed to serve as the Chair for this WG.

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

Communication(s)	Date	Type	Summary
	3/13/2023	Letter	Staff requested that the UL STP 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 CPSC staff will continue to chair and participate in working group meetings, as scheduled.

Fire Safety of Portable Fuel Containers and Gasoline Cans

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

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3429 / ASTM F3429M-23	Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers
	ASTM F3326-21	<i>Standard Specification for Flame Mitigation Devices on Portable Fuel Containers</i>
	ASTM F839-15	<i>Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use</i>

ANSI/CAN/UL/ULC 30:2022	<i>Standard for Safety Metallic and Nonmetallic Safety Cans for Flammable and Combustible Liquids</i>
NFPA 30, 2021 Edition	<i>Flammable and Combustible Liquids Code</i>

Standard(s) Update

On June 12, 2023, ASTM notified the Commission that it had updated ASTM F3429/ASTM F3429M, *Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers*. The revision modified the testing to accommodate safely larger containers.

Relevant Rulemaking

Portable Fuel Container Safety Act of 2020

On August 23, 2023, the Commission voted to accept ASTM F3429/F3429M-23 (F3429-23) as a revision to F3429-20 under the Act.

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 formal communications during the reporting period.

Ballot(s)

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 passed.

Next Action

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

Flammable Refrigerants

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

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	UL 60335-2-40/CSA C22.2 No. 60335-2-40, 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 – 2022	<i>Safety Standard for Refrigeration Systems in Residential Applications</i>

Standard(s) Update In October 2022, ASHRAE revised ASHRAE 15.2, *Safety Standard for Refrigeration Systems in Residential Applications*.

In December 2022, ULSE and CSA published the fourth edition of UL 60335-2-40/CSA C22.2 No. 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 ULSE/CSA and ASHRAE to improve the safety of flammable refrigerants.

Meeting(s) Staff participated in ASHRAE 15 and UL/CSA 60335-2-40 meetings reviewing potential changes and providing each committee with feedback on proposals.

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

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

Next Action Staff will participate in an ASHRAE 15 committee and an UL/CSA 60335-2-40 working group meeting in November 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 N/A

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)	Date	Type	Summary
	9/26/2023	Letter	Staff introduced the new DR to the subcommittee chair and alerted the chair to CPSC's recently published reports on bathtub surface friction research.

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 that were found non-persuasive and the item was passed to the next ballot level.

Next Action Staff will participate in upcoming meetings, as scheduled.

Gas Appliances, CO Sensors (Gas Furnaces and Boilers)

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

Staff Contact Jordan, Ronald

Voluntary Standard(s)	Designation and current version	Title
	ANSI Z21.47-2016/ CSA 2.3-2016	<i>Gas-Fired Central Furnaces</i>
	ANSI Z21.13-2017/ 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 In 2019, the Commission published in the *Federal Register* an Advance Notice of Proposed Rulemaking (ANPR) for Performance Requirements for Residential Gas Furnaces and Boilers, in the *Federal Register* [84 FR 42847]. In September 2023, staff sent a draft NPR briefing package, *Safety Standard for Residential Gas Furnaces and Boilers*, to the Commission for consideration.

Activities Summary Staff continues to monitor the activities of the technical committee and subcommittees for any developments related to CO safety. During the reporting period, staff participated in a CSA Z21/83 technical committee meeting. Additionally, staff developed and delivered an NPR briefing package to the Commission.

Meeting(s) Staff participated in a CSA Z21/83 technical committee meeting on fuel-burning appliances and related accessories.

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

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

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

Gas Ranges

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

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	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.

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

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

Next Action Staff will participate in the next CSA TSC meeting, scheduled for October 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. ASTM D22.05's indoor air subcommittee creates and updates standards on indoor air and indoor environments related to many different sources (e.g., chemicals, materials, products used indoors).

Staff Contact

Bevington, Charles

Voluntary Standard(s)

Designation and current version	Title
ASTM D8142-17e1	<i>Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers</i>
ASTM D8141-22	<i>Standard Guide for Selecting Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs) Emission Testing Methods to Determine Emission Parameters for Modeling of Indoor Environments</i>
ASTM D5438-17	<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 redefined and recharacterized in this update.

Also in December 2022, ASHRAE updated ASHRAE 62.2, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*. Updates to the standard included refinement and reorganization of existing content, clarifying more stringent compartmentalization requirements for attached dwelling units, and a new requirement for supply or balanced dwelling-

unit mechanical ventilation systems for attached dwelling units on enclosed corridors.

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. For example, staff participated in several meetings related to a new *Standard Guide for Selecting and Applying Analytical Methods to Evaluate PFAS in Consumer and Related Products* with ASTM F15.

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 chemical substance emissions or migration from consumer products and their associated concentrations in indoor air, indoor dust, and surfaces 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 protocols from gas ranges and associated indoor air concentrations of carbon monoxide, nitrogen dioxide, and fine particulate matter to enhance the IAQ requirements in future revisions of existing relevant voluntary standards.

Communication(s)

Date	Type	Summary
9/29/2023	Letter	Staff provided comments during the first ballot of the <i>Standard Guide for Selecting and Applying Analytical Methods to Evaluate PFAS in Consumer and Related Products</i> under ASTM F15.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2022	ASTM D8141	Ballot 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 D22.05(22-05), Item 2, proposed to update information on test apparatus and a definition. The ballot had one unresolved negative which was resolved prior to the September ballot.
September 2023	ASTM D5438	Ballot D22.05 (22-05), received one comment during joint subcommittee and main ballot. The ballot item passed.

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

Lighters

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

Staff Contact Ayers, Scott

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

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

Relevant 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 and a task group meeting.

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, and staff is participating. Staff participated in a task group meeting to develop a new proposed standard for battery-powered utility lighters.

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

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

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

Liquid Laundry Packets

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

Staff Contact Hurley, Jill

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

Standard(s) Update The voluntary 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 formal communications during the reporting period.

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

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

LP Gas Appliances

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

Staff Contact Kim, Yeon Seok

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

Standard(s) Update In December 2022, ANSI Z21.97-2017 (R2022)/ CSA 2.41-2017 (R2022), *Outdoor Decorative Gas Appliances*, was reapproved. In August 2023, NFPA 58 (2024), *Liquefied Petroleum Gas Code*, was published.

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 formal communications during the reporting period

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	March 2023	ANSI Z21.89	Ballot for the next edition to the standard, including provisions for smart-enabled outdoor specialty cooking gas appliances. The ballot passed.

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

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, contributed to and reviewed a ballot, and provided feedback on the agency's position for maintaining or improving safety for these products.

Meeting(s) Staff participated in subcommittee 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)	Date	Voluntary	Summary and Results (If Applicable)
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closed	Standard	
September 2023	N/A	Ballot for a new safety standard for beach umbrellas. The ballot item had not been resolved at the end of the reporting period.

Next Action Staff will participate in subcommittee and task group meetings to continue working towards development of a beach umbrella safety standard.

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
	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 contract work with SEA Limited 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 IDs for riding lawn mower incidents.
6/29/2023	Data	Staff provided OPEI with additional IDs 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). The ballot had not been resolved at the end of the reporting period.

Next Action

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

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

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

Activities Summary

Staff continues to work with ULSE and PGMA on CO hazard mitigation requirements in UL 2201 and PGMA G300. During the reporting period, staff participated in a PGMA meeting and continued to develop a regulatory proposal for these hazards.

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

Communication(s)	Date	Type	Summary
	5/9/2023	Letter	Staff responded to a request from PGMA for more information about data used in a CPSC report and the SNPR.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	May 2023	ANSI/PGMA G300	Ballot for revisions to PGMA G300. Staff submitted a negative vote with comments. The ballot had not been resolved at the end of 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
	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 initiate work with 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.

<i>Communication(s)</i>	Date	Type	Summary
	1/17/2023	Email	Staff inquired on the status of adding lid locking and opening mechanism safety performance requirements to UL 1026.

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 calendar year.

Recliners

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

Staff Contact Nesteruk, Hope

Voluntary Standard(s)	Designation and current version	Title
	None	None

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, *Standard for the Flammability of Upholstered Furniture*

Activities Summary Staff will work with SDOs to identify or develop standards to address mechanical hazards related to recliners. During the reporting period, staff sent a letter to UL, ASTM, and BIFMA asking that a voluntary standard be developed to address power recliner hazards. The SDOs met and the ASTM 15.42, Furniture Safety, moved forward to consider developing a standard. Staff participated in subcommittee meetings to work towards a standard.

Meeting(s) Staff participated in an ASTM 15.42 subcommittee meeting where staff's request was discussed. Once ASTM accepted the new project, staff participated in several task group meetings on scope and entrapment.

<i>Communication(s)</i>	Date	Type	Summary
	4/27/2023	Letter/Data	Staff reached out to UL, ASTM, and BIFMA requesting that a voluntary standard committee establish

		performance standards to address power recliner hazards. Staff provided preliminary data with the request.
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Ballot(s) There were no ballots during the reporting period.

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

Smoke Alarms

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

Staff Contact Lee, Arthur

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

Standard(s) Update 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. During the reporting period, staff participated in a NFPA 72 – *National Fire Alarm and Signaling Code* second draft 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 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) Staff participated in a NFPA 72 *National Fire Alarm and Signaling Code* second draft meeting. Among other topics, the task group for notification appliance requirements discussed requirements for individuals with

hearing loss in Section 29.5 (a task group on which CPSC staff participated). During the second draft meeting, the committee acted on the task group’s recommendations.

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

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

Next Action Staff will continue participating in the update of NFPA 72 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 2024.

Table Saws

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

Staff Contact Paul, Caroleene

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

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

Relevant Rulemaking On May 12, 2017, the Commission published an NPR, *Safety Standard Addressing Blade-Contact Injuries on Table Saws* [82 FR 22190]. Staff was drafting an SNPR at the end of the reporting period

Activities Summary During the reporting period, staff recommended that AIMS requirements be reconsidered in the standard. Additionally, staff delivered an SNPR to the Commission in FY 2023.

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

Communication(s)	Date	Type	Summary
	9/7/2023	Letter	Staff recommended that ULSE add requirements for active injury mitigation systems (AIMS) into the standard.

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

Next Action Staff will continue to monitor incident data and recommend safety improvements. Staff expects to deliver a final rule package for Commission consideration.

Torch Fuel and Lamp Fuel

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

Staff Contact White, Sharon

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

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

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

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

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

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

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

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

Washing Machines

Purpose	To work with ULSE to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with an unbalanced load condition of top-loading washing machines.				
Staff Contact	Kim, Yeon Seok				
Voluntary Standard(s)	<table border="1"><thead><tr><th>Designation and current version</th><th>Title</th></tr></thead><tbody><tr><td>UL 2157, 4th Edition</td><td><i>Electric Clothes Washing Machines and Extractors</i></td></tr></tbody></table>	Designation and current version	Title	UL 2157, 4th Edition	<i>Electric Clothes Washing Machines and Extractors</i>
Designation and current version	Title				
UL 2157, 4th Edition	<i>Electric Clothes Washing Machines and Extractors</i>				
Standard(s) Update	The voluntary standard was not updated during the reporting period.				
Relevant Rulemaking	N/A				
Activities Summary	During the reporting period, staff participated in UL 2157 meetings.				
Meeting(s)	Staff attended UL 2157 STP meetings, convened to re-engage the Washer Stability Project Team in continuing its work to draft requirements to mitigate hazards from ejection of parts during top-load washer instantaneous out-of-balance conditions during high-speed spin for possible revision of UL 2157.				
Communication(s)	There were no formal communications during the reporting period.				
Ballot(s)	There were no ballots during the reporting period.				
Next Action	Staff plans to attend upcoming task group meetings, when scheduled.				

Window Coverings

Purpose	To work with WCMA to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with window covering cords.
Staff Contact	Balci-Sinha, Rana

Voluntary Standard(s)

Designation and current version	Title
ANSI/WCMA A100.1-2022	<i>Standard for Safety of Corded Window Covering Products</i>

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. This rule is effective as of December 28, 2022. Also on November 28, the final rule for 16 CFR part 1260, *Safety Standard for Operating Cords on Custom Window Coverings*, was published in the Federal Register (87 FR 73144) with an effective date of May 30, 2023. On September 12, 2023, United States Court of Appeals for the District of Columbia Circuit vacated the *Safety Standard for Operating Cords on Custom Window Coverings* final rule and remanded to the Commission for further proceedings.

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 and provided incident data to the subcommittee.

Meeting(s)

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

Communication(s)

Date	Type	Summary
9/22/2023	Data	Staff provided the committee with incident data for window coverings.

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. Staff will prepare a rulemaking proposal responsive to the judicial remand on cords for custom window coverings.

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 F770-23	<i>Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices</i>
	ASTM F1193-23	<i>Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices</i>
	ASTM F2137-19	<i>Practice for Measuring the Dynamic Characteristics of Amusement Rides</i>
	ASTM F2291-23, -23b	<i>Standard Practice for Design of Amusement Rides and Devices</i>
	ASTM F2970-22	<i>Standard Practice for Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts</i>
	ASTM F2974-22	<i>Standard Practice for Auditing Amusement Rides and Devices</i>

Standard(s) Update 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.

In June 2023, ASTM published ASTM F770-23, *Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices*.

In July 2023, ASTM published ASTM F1193-23, *Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices*.

In July 2023, ASTM published ASTM F2291-23, *Standard Practice for Design of Amusement Rides and Devices*.

In September 2023, ASTM published ASTM F2291-23b, *Standard Practice for Design of Amusement Rides and Devices*.

Relevant Rulemaking

N/A

Activities Summary

Staff continued working with ASTM F24 to improve safety standards for amusement rides, trampoline parks, and adventure attractions within CPSC’s jurisdiction. During the reporting period, staff attended 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 trends in rider weights 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 and 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 was approved.
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. Items 6, 15, 18, 19, and 36 were approved. Items 2, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 16, and 24 were removed from the ballot. Items 3 and 17 were unresolved 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 items received negative votes. Item 20 was unresolved and item 21 was removed from the ballot 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 item received two negative votes and was removed from the ballot.
May 2023	ASTM F2291	Ballot F24(23-03), items 5-8, propose to clarify scope language, include grounding requirements and service outlets, and provide spacing guidance on guardrails for servicing equipment. Items 5 and 6 were approved, item 7 is unresolved, and item 8 was removed from the ballot, but the remaining items are unresolved at the end of the reporting period.
May 2023	ASTM F2970	Ballot F24(23-03), item 12, proposes multiple updates across the standard.

		Several negative votes were received and the item is unresolved at the end of the reporting period. A ballot was issued to find the negatives non-persuasive.
May 2023	ASTM F2970	Ballot F24(23-04), items 7-26, propose multiple updates across the standard. All of the items received negative votes and are unresolved at the end of the reporting period.
September 2023	ASTM F2291	Ballot F24(23-05), items 1-9, propose multiple updates across the standard. All items received negative votes. Item 1 was removed from the ballot. The remaining items and are unresolved at the end of the reporting period.
September 2023	ASTM F2970	Ballot F24(23-05), items 16-28, propose multiple updates across the standard. All items received negative votes and are unresolved at the end of the reporting period.
October 2023	ASTM F2291	Ballot F24(23-06), items 7-12, propose multiple updates across the standard. The ballot was still open at the end of the reporting period.
October 2023	ASTM F2970	Ballot F24(23-06), items 13-16, propose multiple updates across the standard. The ballot was still open at the end of the reporting period.

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
Voluntary Standard(s)

Lim, Han

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

Standard(s) Update

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 July 27, 2023, the Commission published an NPR to incorporate the 2023 version of ANSI/SVIA 1 into the rule [88 FR 48398]. Staff began work on the draft final rule package to incorporate ANSI/SVIA 1-2023 as the CPSC mandatory standard.

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

Activities Summary

Staff continues to work with SVIA to develop possible performance standard requirements to address fire hazards. During the reporting period, staff provided recommendations for the SVIA ballot. Additionally, Staff has started drafting the Final Rule 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 continue collaborating with SVIA to address fire hazards associated with ATVs. Staff will deliver a final rule briefing package in Fiscal Year 2024 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 *Requirements for Bicycles*

Activities Summary Staff continues to work with the subcommittee on issues related to bicycles. During the reporting period, staff participated in subcommittee meetings and reviewed a ballot item.

Meeting(s) Staff attended the ASTM F08.10 Bicycles subcommittee meetings, where task groups for children’s bicycle handlebars, front mount accessories, and forks gave updates on their progress.

Communication(s) There were no formal 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.
	October 2023	ASTM F2793	Ballot F08(23-04), item 2, proposed to add end cap requirement, and to rotate the test fixture 90 degrees between each impact. The item passed.

Next Action Staff will participate in upcoming subcommittee meetings in February 2023. Staff will develop a draft ANPR on e-bikes for Commission consideration.

Fireworks

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

Staff Contact Verdino, Priscilla

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

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

Relevant 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 reviewed standards, fireworks field performance and incidents and published an annual report on fireworks injuries and deaths and attended an APA standards committee meeting.

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

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

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

Next Action Staff will participate in upcoming 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 Rulemaking	16 CFR part 1262, <i>Safety Standard for Magnets</i>						
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. Staff provided draft revisions to ASTM F3458 - 21 to align with 16 CFR part 1262 and improve additional requirements.						
Communication(s)	<table border="1"> <thead> <tr> <th>Date</th> <th>Type</th> <th>Summary</th> </tr> </thead> <tbody> <tr> <td>12/9/2022</td> <td>Data</td> <td>Staff provided IDIs related to magnet ingestion of “larger” magnets.</td> </tr> </tbody> </table>	Date	Type	Summary	12/9/2022	Data	Staff provided IDIs related to magnet ingestion of “larger” magnets.
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	Phillips, Khalisa				
Voluntary Standard(s)	<table border="1"> <thead> <tr> <th>Designation and current version</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>ASTM F1148-22</td> <td><i>Standard Consumer Safety Performance Specification for Home Playground Equipment</i></td> </tr> </tbody> </table>	Designation and current version	Title	ASTM F1148-22	<i>Standard Consumer Safety Performance Specification for Home Playground Equipment</i>
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 and task group meetings and provided the subcommittee with IDIs.

Meeting(s)

Staff participated in two ASTM F15.09 subcommittee meetings and recurring pictogram task group meetings. The main topics were fall hazards with aftermarket do-it-yourself swing hardware and strangulation hazards involving slides and climbing ropes.

Communication(s)

Date	Type	Summary
07/24/2023	Data	Staff provided an IDI related to a climbing rope entanglement to the subcommittee.
9/15/2023	Data	Staff provided an IDI related to a drawstring entanglement to the subcommittee.

Ballot(s)

There were no ballots during the reporting period.

Next Action

Staff will participate in subcommittee and task group meetings, scheduled for November 2023.

Playground Equipment, Public

Purpose

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

Staff Contact

Newens, Andy

Voluntary Standard(s)

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

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 to address playground fencing safety requirements such as F2049-11(2017) under the F14 designation versus F15 or F08. 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 formal communications during the reporting period.

Ballot(s)

There were no ballots during the reporting period.

Next Action

Staff will participate in subcommittee meetings in November 2023. Staff plans to update the CPSC Public Playground Handbook in 2024.

Playground Surfacing

Purpose

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

Staff Contact

Newens, Andy

Voluntary Standard(s)

Designation and current version	Title
ASTM F1292-22	Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment
ASTM F1951-21	<i>Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment</i>
ASTM F2075-20	<i>Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment</i>
ASTM F2479-17	<i>Standard Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing</i>

ASTM F2650-17e1	<i>Standard Terminology Relating to Impact Testing of Sports Surfaces and Equipment</i>
ASTM F3012-22	<i>Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface Under and Around Playground Equipment</i>
ASTM F2223-19a	<i>Standard Guide for ASTM Standards on Playground Surfacing</i>
ASTM F3313-20	<i>Standard Test Method for Determining Impact Attenuation of Playground Surfaces Within the Use Zone of Playground Equipment as Tested in the Field</i>
ASTM F3351-19e1	<i>Standard Test Method for Playground Surface Impact Testing in Laboratory at Specified Test Heights</i>

Standard(s) Update

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 ASTM F08.63 subcommittee meetings. 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 formal 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 November 2023 and plans to draft an update to the CPSC Public Playground Handbook in FY2024.

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. Staff participated in PHTA-4 meetings, where pool safety 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 formal communications during the reporting period.

Date closed	Voluntary Standard	Summary and Results (If Applicable)
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.

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	American National Standard for Recreational Off-Highway Vehicles
	ANSI/OPEI B71.9- 2022	American National Standard for Multipurpose Off-Highway Utility Vehicles

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- 2022, *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.

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

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

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

Activities Summary

Staff continues to work with OPEI and ROHVA to develop possible performance standard requirements to address fire and debris penetration hazards in ROVs. During the reporting period, staff provided incident data relevant to ROV debris penetration.

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.
9/8/2023	Data	Staff provided ROHVA with an IDI related to a debris penetration incident.

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

For Fiscal Year 2024, staff plans to deliver a draft final rule for ROV/UTV Debris Penetration Hazards.

Self-Balancing Scooters and Light Electric Vehicles

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

Staff Contact Mella, Lawrence

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2614-15	<i>Recreational Powered Scooters and Pocket Bikes</i>
	ASTM F2641-23	<i>Standard Consumer Safety Specification for Recreational Powered Scooters and Pocket Bikes</i>
	ASTM F2642-08 (2015)(Withdrawn 2023)	<i>Standard Consumer Safety Specification for Safety Instructions and Labeling for Recreational Powered Scooters and Pocket Bikes</i>
	ASTM WK57360	<i>Potential new voluntary standard for self-balancing scooters and hoverboards</i>
	ASTM WK70724	<i>Potential new voluntary standard for commercial electric-powered scooters for adults</i>
	UL 2849, 1 st Edition	<i>Standard for Electrical Systems of eBikes</i>

Standard(s) Update In August 2023, ASTM published a revision to ASTM F2641, *Standard Consumer Safety Specification for Recreational Powered Scooters and Pocket Bikes*. Revisions included adding the labeling requirements previously in F2642.

In August 2023, ASTM withdrew F2642-08(2015), *Standard Consumer Safety Specification for Safety Instructions and Labeling for Recreational Powered Scooters and Pocket Bikes*, because the labeling requirements it proposed were instead added to F2641.

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 ULSE joint working group be established to address incidents related to fire or overheating incidents with these products. The Commission hosted a lithium-ion battery forum on fire hazards associated with micromobility products.

Meeting(s)

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

Date closed	Voluntary Standard	Summary and Results (If Applicable)
May 2023	ASTM F2641	Ballot F15(23-06), item 1, proposed revision of standard to include labeling requirements formerly found in ASTM F2642. Item passed.
July 2023	ASTM F2642	Ballot F15(23-09), item 4, proposed withdrawal of standard because requirements were combined into ASTM F2641. Item passed.
August 2023	ASTM WK86569	Ballot F15(23-13), item 3, proposed a new standard for self-balancing scooters. Negative found persuasive. Item removed from ballot.
November 2023	ASTM WK70724	Ballot F15(23-15), item 2, proposed a new standard for commercial electric-powered scooters for adults. Negative found persuasive. Item removed from ballot.

Next Action

Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meeting scheduled in November 2023. Staff expects to develop for the Commission’s consideration a draft NPR on lithium-ion batteries for micromobility products and a draft ANPR on e-bikes.

Sports/Recreational Headgear Sensors/Helmet and Sensors

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

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 F2220-23	<i>Standard Specification for Headforms</i>

Standard(s) Update In August 2023, ASTM published a revision of F2220, *Standard Specification for Headforms*.

Relevant Rulemaking N/A

Activities Summary During the reporting period, staff participated in ASTM F08 and NOCSAE committee meetings. Staff reviewed ASTM and international standards and incident data related to helmets.

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

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

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

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

Swimming Pools/Spas, Drain Entrapment

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

Staff Contact 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. During the reporting period, staff proposed revisions to ANSI/APSP/ICC 16-2017.

Meeting(s) Staff participated in meetings with the PHTA-16 Standard Writing Committee (SWC) to discuss updating the standard. Staff proposed nine change requests, which included topics in the design and testing sections of the standard, and the provisional amendment requirements to APSP-16, which expired March 19, 2023. The staff change request for revising the unblockable drain language was accepted and will be balloted.

Communication(s)	Date	Type	Summary
	2/6/2023	Call	At the request of PHTA, staff described the types of requirements in APSP-16 within the scope of mandatory standards.

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 in calendar year 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>

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, and provided a final report.

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)	Date	Type	Summary
	9/1//2023	Email	Staff provided their report on tent flammability testing to the subcommittee.

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

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

Treadmills

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

Staff Contact DeGrano, Frederick

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2115-19	<i>Standard Specification for Motorized Treadmills</i>

ASTM F1749-15(2020)	<i>Standard Specification for Fitness Equipment and Fitness Facility Safety Signage and Labels</i>
ASTM F2276-10(2015)	<i>Standard Specification for Fitness Equipment</i>
UL 1647, 6 th Edition	<i>Motor-Operated Massage And Exercise Machines</i>

Standard(s) Update

The voluntary standards were not updated during the reporting period.

Relevant 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 subcommittee and task group meetings and provided the subcommittee with an IDI.

Meeting(s)

Staff participated in subcommittee and task group meetings where it presented proof of concept safety solutions for child entrapment and presented alternate requirements to those proposed by the subcommittee.

Communication(s)

Date	Type	Summary
7/17/2023	Letter	Staff provided a comment to ballot F08(23-03), item 5, opposing the change in language.
9/22/2023	Data	Staff provided the subcommittee with an IDI related to treadmills.

Ballot(s)

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.
July 2023	ASTM F2276	Ballot F08(23-03), item 5, proposed that owner’s manuals for fitness equipment “shall be made available” to the consumer rather

		than “shall be provided” with the product. The item was unresolved at the end of the reporting period.
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Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Codes, Analytical Methods, and Labeling

Building Codes

Purpose To work with various model building codes to ensure consumer safety considerations 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, 2024 Edition	Liquefied Petroleum Gas Code
	NFPA 70, 2023 Edition	<i>National Electrical Code</i> [®]
	NFPA 72, 2022 Edition	<i>National Fire Alarm Signaling Code</i> [®]
	IFGC	<i>International Fuel Gas Code</i>

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 formal 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

Roemer, Matthew

Voluntary Standard(s)

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

Standard(s) Update In April 2023, ASTM D8133-23, *Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry* was revised. Minor changes were made to account for variation permissibility with the gas chromatograph (GC) parameters.

Relevant Rulemaking N/A

Activities Summary Staff is working with the ASTM D20.70 subcommittee on analytical methods to review the status of several methods. Staff participated in an interlaboratory study (ILS) for ASTM D8133-23. The purpose of the ILS is to determine the Precision and Bias statement for ASTM D8133-23 (both Methods A and B). Several laboratories, including the CPSC, participated and provided data for both Method A and Method B in Q3 of 2023.

Meeting(s) Staff attended several ASTM D20.70 subcommittee meetings and task group meetings on analytical methods to discuss participation in the ILS for ASTM D8133.

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
April 2023	ASTM E3203	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. The item received negative votes and was removed from the ballot.
April 2023	ASTM D8133	Ballot D20(23-01) proposed updates to GC/MS conditions to incorporate minor changes to account for variation permissibility with the gas chromatograph (GC) parameters. The ballot item was approved.
July 2023	ASTM E3203	Ballot D20(23-03), item 25, proposed changes in previous ballots and the addition of micro-vacuuming. The item was unresolved at the end of the reporting period.
September 2023	ASTM E3203	Ballot D22(23-04), item 4, proposed changes in previous ballots and the addition of micro-vacuuming with some

		additional edits. The item was unresolved at the end of the reporting period.
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Next Action Staff will participate in upcoming ASTM task group meetings or subcommittee meetings, when scheduled. The ASTM D20.70 subcommittee on analytical methods will meet in Spring 2024 to complete the review of the data obtained from the ILS for ASTM D8133-23.

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 of the NEC 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 2023 NEC Section 210.8.

Meeting(s) Staff participated in several task groups during the reporting period to address high frequency noise and leakage currents causing nuisance tripping of GFCIs. Task groups included: *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*, and UL STP 943, *Standard for Ground-Fault Circuit-Interrupters* meetings.

Communication(s)	Date	Type	Summary
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12/13/2022	Data	Staff provided publicly-available data on consumer electrocutions to the NFPA GFCI task group.
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Ballot(s) There were no ballots during the reporting period.

Next Action Staff will continue to participate in the 2026 NEC revision 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 ANSI Z535.7 subcommittee meetings 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 and resolve comments.

Communication(s) There were no formal 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, when scheduled.

Appendix: Organizational Abbreviations

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

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

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

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