



Memorandum

DATE: December 14, 2022

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 2022 Annual Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Fiscal Year 2022 (FY 2022) Annual Voluntary Standards Tracking and Access Report (VSTAR), covering the period October 1, 2021 through September 30, 2022. If you have any questions, please contact Jacqueline Campbell at: jcampbell@cpsc.gov or VoluntaryStandards@cpsc.gov.



United States
Consumer Product Safety Commission
cpsc.gov | info@cpsc.gov | 800.638.2772

Memorandum



United States
Consumer Product Safety Commission

Voluntary Standards Tracking and Access Report

FY 2022 ANNUAL REPORT

(October 1, 2021–September 30, 2022)

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

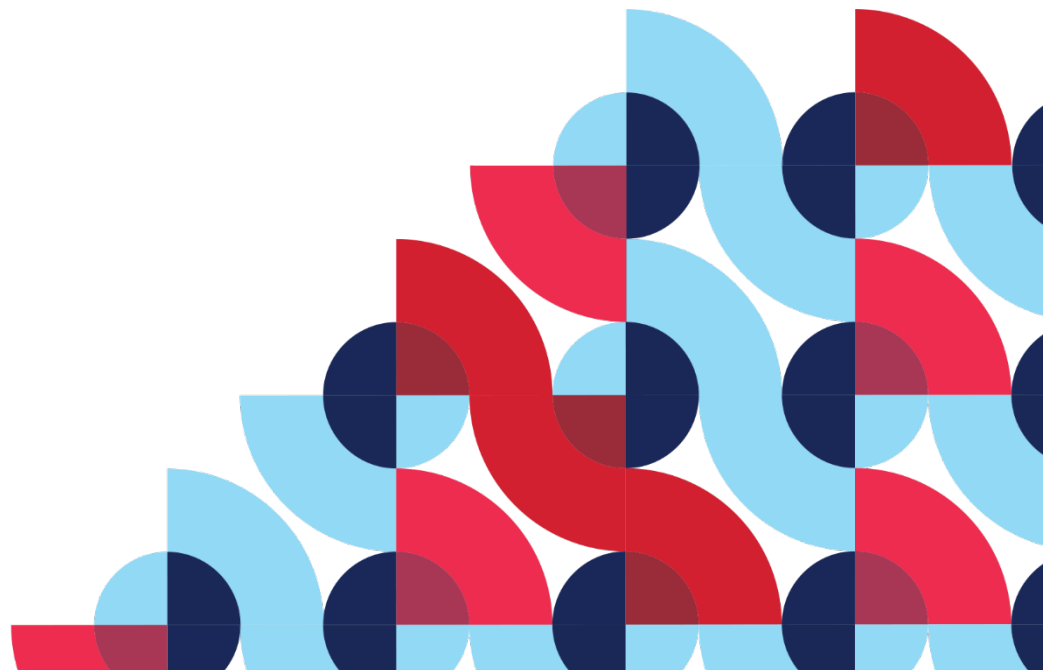


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CPSC Voluntary Standards Activities:

October 1, 2021–September 30, 2022

Introduction

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

VSTAR Content and Organization

The Voluntary Standards Tracking and Access Report (VSTAR) is issued biannually as: (1) a Mid-Year Report, covering the period from October 1 through March 31, and (2) an Annual Report of the CPSC fiscal year, which covers the period from October 1 to September 30. This document is the Fiscal Year 2022 (FY 2022) 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 safety activities. This report contains a listing of all the SDOs working with staff 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 initially published or revised during the reporting period. Additionally, this report identifies staff

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 Research Institutes, which is a product testing and certification laboratory that was formerly part of UL.

who were approved to vote on a voluntary standard or hold a leadership position on a standards body during the reporting period.

Lastly, the VSTAR contains a section for each product, product area, or hazard associated with CPSC staff's voluntary standards work, as outlined in the FY 2022 CPSC Operating Plan (Op Plan). The FY 2022 Op Plan lists 83 different products, product areas, or hazards for which staff plans to be actively involved in developing voluntary standards during the fiscal year. The voluntary standards covered in this report address potential hazards associated with consumer products found in homes, schools, and recreation areas. More than 40 different staff serve as designated representatives (DRs) for the voluntary standards work that covers the 83 activity areas outlined in this report.

The product, product area, or hazards are organized into similar activities with the following grouping:

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

Each VSTAR entry includes the following information:

Purpose:	The purpose of staff's involvement with the voluntary standard(s).
Staff Contact:	The name of staff leading the activity (<i>i.e.</i> , the designated representative, DR).
Voluntary Standard(s):	The designation(s) and name(s) of existing voluntary standards, potential new voluntary standards, and ISO standards associated with the product, with which staff is, was, or may be actively involved. The designation and titles for new or updated voluntary standards are in bold font . Titles for current voluntary standards are in <i>italics</i> , and titles of draft or potential standards are in plain font (not bold and non-italicized).
Standard(s) Update:	Any updates to the voluntary standards or potential new voluntary standards with staff's participation.
Relevant Rulemaking:	Any associated CPSC mandatory standard(s), proposed regulation(s), and any relevant petitions, regardless of status. This subsection also includes updates to any of the petitions,

mandatory standards, or proposed regulations 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 42 revised, renewed, or new voluntary standards that staff actively engaged in revising or developing, and that were published during the period October 1, 2021 to September 30, 2022. 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 2022 fiscal year are shown in bold font in the applicable activity section.

**Table 1: New, Renewed, or Revised Voluntary Standards Published
October 1, 2021 - September 30, 2022**

Title	SDO	Published	DR	New, Revision, Renewal
F747-21 Standard Terminology Relating to Amusement Rides and Devices	ASTM	October 2021	Taxier, D.	Revision
F2933-21a Standard Consumer Safety Specification for Crib Mattresses	ASTM	October 2021	Taxier, D.	Revision
F3512-21- Standard Test Method for Evaluating Wind Safety and Durability of Market Umbrellas	ASTM	October 2021	Newens, A.	New

F3326-21 Standard Specification for Flame Mitigation Devices on Portable Fuel Containers	ASTM	October 2021	Ayers, S.	Revision
60335-2- 89, 2nd Edition Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor	UL/CSA	October 2021	Ayers, S.	Revision
F3463-21 Standard Guide for Ensuring the Safety of Connected Consumer Products	ASTM	November 2021	Lee, S.	Revision
Z21.58/CSA 1.6 6th edition Outdoor Cooking Gas Appliances	ANSI/CSA	January 2022	Kim, Y.	Revision
F852 / F852M-22 Standard Specification for Portable Gasoline Kerosene, and Diesel Containers for Consumer Use	ASTM	January 2022	Ayers, S.	Revision
F2388-21 Standard Consumer Safety Specification for Baby Changing Products for Domestic Use	ASTM	January 2022	Mella, L.	Revision
F404-21 Standard Consumer Safety Specification for High Chairs	ASTM	January 2022	Marques, S.	Revision
F852/F852M-22 Standard Specification for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use	ASTM	January 2022	Ayers, S.	Revision
F2598-22 Standard Consumer Safety Specification for Sealed Storage Chests such as Cedar Chests, Hope Chests, Blanket Chests, Keepsake Chests	ASTM	February 2022	Verdino, P.	Revision
F3012-22 Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment	ASTM	February 2022	Lee, K.	Revision
Movable and Wall-or Ceiling-Hung Electric Room Heaters	UL	February 2022	Lee, A.	Revision
F3159-15(2022) Standard Safety Specification for Liquid Laundry Packets	ASTM	March 2022	Hurley, J.	Reapproval
F1148-22 Standard Consumer Safety Performance Specification for Home Playground Equipment	ASTM	March 2022	Lee, K.	Revision
F2670-22 Standard Consumer Safety Specification for Infant Bath Tubs	ASTM	March 2022	Foster, Z.	Revision
30 Metallic and Nonmetallic Safety Cans for Flammable and Combustible Liquids	UL	April 2022	Ayers, S.	Revision
15.2 Safety Standard for Refrigeration Systems in Residential Applications	ASHRAE	April 2020	Ayers, S.	Revision
F2088-22 Standard Consumer Safety Specification for Infant and Cradle Swings.pdf	ASTM	May 2022	Torres, C.	Revision

F2167-22 Standard Consumer Safety Specification for Infant Bouncer Seats	ASTM	May 2022	Wanna-Nakamura, S.	Revision
F2549-22 Standard Consumer Safety Specification for Frame Child Carriers.pdf	ASTM	May 2022	Lee, K.	Revision
F2907-22 Standard Consumer Safety Specification for Sling Carriers	ASTM	May 2022	Foster, Z.	Revision
F3084-22 Standard Consumer Safety Specification for Infant and Infant_Toddler Rockers	ASTM	May 2022	Kish, C.	Revision
F1193-22 Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices	ASTM	June 2022	Taxier, D.	Revision
F2194-22e1 - Standard Consumer Safety Specification for Bassinets and Cradles	ASTM	June 2022	Kish, C.	Revision
F2291-22a - Standard Practice for Design of Amusement Rides and Devices	ASTM	June 2022	Taxier, D.	Revision
F2970-22 - Standard Practice for Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts	ASTM	June 2022	Taxier, D.	Revision
F2974-22 - Standard Practice for Auditing Amusement Rides and Devices	ASTM	June 2022	Taxier, D.	Revision
F770-22 - Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices	ASTM	June 2022	Taxier, D.	Revision
2849, Electrical Safety Systems for eBikes	UL	June 2022	Mella, L.	Revision
ANSI/PHTA/ICC- 4 (2022) American National Standard for Above-Ground/On-Ground Residential Pools	ANSI/PHTA /ICC	June 2022	Bathalon, S.	Renewal
ANSI/PHTA/ICC- 5 (2022) Residential Inground Swimming Pools	ANSI/PHTA /ICC	June 2022	Bathalon, S.	Renewal
E2525-22 Standard Test Method for Evaluation of the Effect of Nanoparticulate Materials on the Formation of Mouse Granulocyte-Macrophage Colonies	ASTM	July 2022	Matheson, J.	Revision
F1004-22 - Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures	ASTM	July 2022	Torres, C.	Revision
F2517-22e1 - Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use	ASTM	July 2022	Ayers, S.	Revision

F977-22e1 - Standard Consumer Safety Specification for Infant Walkers	ASTM	July 2022	Mordecai, B.	Revision
60335-2- 24, 3rd Edition Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice Cream Appliances, and Ice-Makers	UL/CSA	July 2022	Ayers, S.	Revision
60335- 2-107 revision 2.2 Particular Requirements for Robotic Battery Powered Electrical Lawnmowers	ANSI/OPEI	August 2022	Newens, A.	Revision
F2613-22 Standard Consumer Safety Specification for Children's Chairs and Stools	ASTM	August 2022	Lee, K.	Revision
F3304-22 Standard Specification for Lamp Fuel and Torch Fuel Packaging	ASTM	August 2022	White, S.	Revision
D8445-22a Standard Practice for Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-scale Ventilated Enclosure	ASTM	September 2022	Bevington, C.	New/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	Vote or Leadership	Standards Body and Standard
Thomas, T.	December 2021	New	Leadership and voting	UL 2904, 3D Printer Emissions
Kish, C.	December 2021	Renewal	Voting	ASTM F15.18 Bassinets and Cradles
Kish, C.	January 2022	Renewal	Voting	ASTM F15.18 Infant Inclined Sleep Products
Kish, C.	January 2022	New	Voting	ASTM F15.18, Non-Full-Size Baby Cribs and Play Yards

Harsanyi, S.	January 2022	Renewal	Voting	ASTM F15.77, Adult Magnets
Ayers, S.	April 2022	Renewal	Leadership and Voting	ASTM F15.72, Flame Mitigation Devices on Disposable Fuel Containers*
Ayers, S.	April 2022	Renewal	Leadership and Voting	ANSI/CSA Z21 Gas Ranges*
Smith, T.	April 2022	New	Voting	ANSI Z535 Safety Colors and Signs*
Ayers, S.	April 2022	Renewal	Voting	ASTM F15.10 Gasoline Containers*
Ayers, S.	April 2022	New	Voting	UL 30 Safety Cans*ASTM F15.10 Gasoline Containers*
Ayers, S.	April 2022	New	Voting	UL 30 Safety Cans*
Balci-Sinha, R.	June 2022	New	Voting	ANSI/WCMA A100.1 Safety of Corded Window Covering Products
Bevington, C.	July 2022	New	Voting	ASTM IAQ Standard Guide

FY 2022 Staff 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 develop product safety standards for durable infant and toddler products. Once a regulation is promulgated, the SDO notifies the Commission of updates to the standard. Unless the Commission notifies the SDO 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 notify the SDO that the applicable mandatory children’s product safety rule remains unchanged.

Bassinets/Cradles

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

Staff Contact Kish, Celestine

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

Standard(s) Update On July 18, 2022, ASTM notified staff that it had published ASTM F2194-22e1, the latest revision to the *Standard Consumer Safety Specification for Bassinets and Cradles*. This revision added compact bassinets to the scope of the standard. On September 23, 2022, the Commission voted to determine that the revision did not improve safety and directed staff to notify ASTM that ASTM F2194 –13, with modifications, would remain incorporated by reference. Staff was preparing a notification to ASTM at the end of 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.

A notice of availability and request for comments were published on July 28, 2022 [87 FR 45303].

Activities Summary

Staff continues to work with the subcommittee on safe sleep issues for bassinets and cradles. During the reporting period, staff provided data on cantilever bassinets and in-bed sleepers, participated in task group meetings on bassinet and cradle scope and performance requirements, and provided feedback on the agency’s position for improving safety for these products. Additionally, staff prepared a briefing package for Commission consideration on the revision to the standard published in ASTM 2194-22e1.

Meeting(s)

Staff participated in ASTM F 15.18 subcommittee meetings to discuss ballot outcomes and task group updates. The issue of “legs” on bassinets resulted in forming a new task group.

Staff participated in a task group meeting to discuss issues related to baby boxes, such as lids and water repellency.

Staff participated in task group meetings to discuss scope and definition issues, such as the issue of a requirement for a “leg-based” frame and how it can be characterized with stability testing and whether in-bed sleepers would be in scope of the new definition.

Communication(s)

Date	Type	Summary
12/8/2021	Incident Data	Staff provided the ASTM F 15.18 subcommittee with cantilever bassinet incident data, along with a letter requesting formation of a task group to review incidents and propose performance requirements.
12/8/2021	Incident Data	Staff provided the ASTM F 15.18 subcommittee a redacted IDI for an in-bed sleeper bassinet.
3/23/2022	Incident Data	Staff provided the ASTM F 15.18 subcommittee a redacted IDI for an in-bed sleeper bassinet.
4/27/2022	Letter	Staff provided a letter to explain negative vote on ballot F 15(22-04).
5/11/2022	Incident Data	Staff provided the ASTM F 15.18 subcommittee with bassinet incident data for the period 1/1/2017-2/28/2022, as well as two redacted IDIs.
6/7/2022	Incident Data	Staff provided the ASTM F 15.18 subcommittee with redacted IDIs for cantilever bassinets.

Applicable Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2021	ASTM F2194	Ballot F15(21-07) item (4) struck the term “bassinet/cradle” from the side height requirements to be more inclusive of different bassinet designs. Staff submitted a comment supporting side heights of at least 7.5 inches. The ballot item passed.
October 2021	ASTM F2194	Ballot F15(21-07) item (5) to find a previous staff negative vote on the “compact bassinet” definition, stability test, and side height non-persuasive. Staff’s negative vote was found non-persuasive.
November 2021	ASTM F2194	Ballot F15(21-08) item (1) addressed suffocation concerns with lids on “baby boxes.” The item did not pass. The subcommittee found negative vote(s) persuasive and removed the item from the ballot.
March 2022	ASTM F2194	Ballot F15(22-02) items (3, 4) addressed suffocation concerns with lids and water repellency, respectively, of “baby boxes.” Item 3 received multiple negative votes, and item 4 received one negative vote. Both items remained unresolved at the end of the reporting period.
May 2022	ASTM F2194	Ballot F15(22-04) item (7) addressed the definition and scope within the standard. The item received several negative votes. Staff submitted a negative vote, commenting that the proposed definition removed any reference to legs, base, or stand and no longer meets the definition of “bassinet/cradle” in 16 CFR part 1218.
August 2022	ASTM F2194	Ballot F15(22-12) items (3,4,5,6,7) were issued to find negative votes on ballot F15(22-02) item (3) nonpersuasive. The ballot items were approved.
September 2022	ASTM F2194	Ballot F15(22-13) items (3,4,5,6,7,8,9) were issued to find negative votes on ballot F15(22-02) item (4) nonpersuasive. The ballot items were approved.
September 2022	ASTM F2194	Ballot F15(22-14) items (1,2,3,4,5,6,7) were issued to find negative votes on ballot F15(22-04) item (7) nonpersuasive. The ballot items were approved.

Next Action Staff will participate in upcoming subcommittee meetings, including the next ASTM subcommittee meeting scheduled in October 2022. Staff will notify ASTM that the current revision will not be incorporated into 16 CFR part 1218.

Bedside Sleepers

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

Staff Contact Kish, Celestine

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2906-13 (2019)	<i>Standard Consumer Safety Specification for Bedside Sleepers</i>

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

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

Activities Summary Staff continues to work with the subcommittee on safe sleep issues related to bedside sleepers. During the reporting period, staff provided data on bedside sleepers and participated in a task group and subcommittee meeting. Staff worked with the subcommittee to find balloted language that would not negatively impact safety.

Meeting(s) Staff participated in a subcommittee meeting where new language was proposed and discussed to address questions from a testing laboratory, and a task group was formed to explore the issue. Additionally, a task group was formed to address “mattress top” bedside sleepers. Staff participated in a task group meeting on the proposed clarifying language, resulting in a recommendation that was balloted.

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

Applicable Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	September 2022	ASTM F2906	Ballot F15(22-13) item (1) proposed clarifying language for the performance requirement and warning sections. The item received a negative vote (later withdrawn) regarding

		alignment with Ad Hoc Language and some editorial comments. The item was approved.
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Next Action Staff will participate in the next ASTM subcommittee meeting scheduled for October 2022.

Booster Seats

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

Staff Contact Kish, Celestine

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

Standard(s) Update The voluntary standard listed here 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 emailed the subcommittee chair the annual booster seat data review.

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

Communication(s)	Date	Type	Summary
	11/23/21	Data	Annual booster seat data review. Staff did not identify any fatalities or new hazard patterns.

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

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

Carriages and Strollers

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

Staff Contact Talcott, Kristen

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

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

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

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

Activities Summary Staff continues to work with the ASTM F15.17 subcommittee to address safety issues related to carriages and strollers. During the reporting period, staff presented a Direct Final Rule (DFR) briefing package to the Commission, attended subcommittee meetings, and developed questions for the subcommittee on testing issues.

Meeting(s) Staff participated in subcommittee meetings where members discussed the potential implications of the CPSC final rule for infant sleep products on carriages and strollers, leading to formation of a task group to appeal to CPSC for guidance on the issue. Members also discussed testing questions from staff. Staff plans to send a list of redrafted questions at the request of the subcommittee members.

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

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

Next Action Staff will participate in upcoming subcommittee meetings.

Changing Products

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

Staff Contact Mella, Lawrence

Voluntary Standard(s)

Designation and current version	Title
ASTM F2388-21	Standard Consumer Safety Specification for Baby Changing Products for Domestic Use

Standard(s) Update

On February 1, 2022, ASTM notified staff that it had published ASTM F2388-21, the latest revision to the *Standard Consumer Safety Specification for Baby Changing Products for Domestic Use*. This revision updates a figure to align information with other standards using the same testing apparatus.

Relevant Rulemaking

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

The mandatory standard was updated on April 26, 2022 [87 FR 24414], with an effective date of July 31, 2022.

Activities Summary

Staff continues to work with the ASTM F15.18 subcommittee on safety issues related to baby changing products. During the reporting period, staff provided input that there were no incidents that specifically indicated contoured changing pads, provided input to discussion of potential changes for new designs in the market, and prepared a briefing package for Commission consideration on the revision to the standard published in ASTM F2388-21.

Meeting(s)

Staff participated in a subcommittee meeting where members were updated on task groups for Cribs/Changers, Metal Fasteners, and CPSC incident data. Members also discussed four new issues: new products on the market, travel diaper changing stations and wearables, contoured changing pads and frames, and advised members that the subcommittee chair was stepping down. Staff participated in two task group meetings on contoured changing pads.

Communication(s)

Date	Type	Summary
June 28, 2022	Letter	Staff notified ASTM that the standard was incorporated by reference into 16 CFR part 1235, as a direct final rule.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2021	ASTM F2388	Ballot F15(21-07) item (6) proposed an updated figure to align information with other standards using the same testing apparatus. Two administrative negatives were withdrawn November 2021, and the ballot item passed.

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

Children's Folding Chairs and Stools

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

Staff Contact Lee, Kevin

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

Relevant Rulemaking 16 CFR part 1232, *Safety Standard for Children's Folding Chairs and Children's Folding Stools*

A notice of availability and request for comments was published on June 30, 2022 [87 FR 39068].

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 the head entrapment task group to establish a test for head entrapment hazards in these products.

Meeting(s) Staff participated in task group meetings to develop an additional new head entrapment performance requirement between elastic components. Staff provided the task group with head entrapment test methods from the CPSC public playground handbook and other ASTM juvenile product standards.

Ballot(s)

Date	Type	Summary
April 2022	F2613	Ballot F 15(22-03) item (4) proposed a test for head entrapment, scope changes, and other updates. The item received one negative vote (later withdrawn) that proposed clarifications to terms and testing. The ballot item passed.

Next Action

Staff will participate in upcoming subcommittee meetings in October 2022 and work with the subcommittee to establish safety improvements in the standard. Staff will prepare a briefing package on the revisions to the standard for Commission consideration.

Commercial Cribs

Purpose

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

Staff Contact

Taxier, Daniel

Voluntary Standard(s)

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

Standard(s) Update

The voluntary standard listed here 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. Staff provided the subcommittee with a summary of recent incident data.

Meeting(s)

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

Communication(s)

Date	Type	Summary
August 23, 2022	Data	Staff provided the subcommittee with the incident data for commercial cribs from 8/15/2021-8/15/2022.

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

Next Action Staff will participate in upcoming subcommittee meetings, including the next ASTM subcommittee meeting scheduled in October 2022.

Crib Mattresses (including Supplemental and Aftermarket Mattresses)

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

Staff Contact Taxier, Daniel

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

Standard(s) Update In October 2021, ASTM published a revision to ASTM F2933- 21, ASTM F2933-21a *Standard Consumer Safety Performance Specification for Crib Mattresses*, that changed warnings and instructions in the standard. Staff voted against the ballot items, but the vote was found non-persuasive.

Relevant Rulemaking 16 CFR part 1241, *Safety Standard for Crib Mattresses*
On February 15, 2022, the Commission published the final rule (87 FR 8640) with an effective date of August 15, 2022. 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 multiple task groups, as well as presented a final rule to the Commission.

Meeting(s) Staff participated in ASTM F15.66 subcommittee meetings to discuss ballot outcomes and aligning to the new crib mattress rule, 16 CFR part 1241. Staff participated in meetings of multiple task groups covering crib mattress sheet shrinkage, Ad Hoc Language, surface firmness, corner gap evaluation, cyclic testing, and breathability.

Communication(s)	Date	Type	Summary
	8/23/2022	Data	Staff provided the subcommittee with the incident data for infant mattresses and pads from 1/1/2010-4/15/2022.

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

Next Action Staff will participate in upcoming subcommittee meetings, including the next ASTM subcommittee meeting scheduled in October 2022.

Frame Child Carriers

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

Staff Contact Lee, Kevin

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

Standard(s) Update On June 6, 2022, ASTM notified staff that it had published ASTM F2549-22, the latest revision to the *Standard Consumer Safety Specification for Frame Child Carriers*. This revision increased the test weight in the dynamic load and stability test, increased the scope of products covered, corrected incorrect citations and refined some passages, added a new warning label, and updated Ad Hoc Language.

Relevant Rulemaking 16 CFR part 1230, *Safety Standard for Frame Child Carriers*
 The mandatory standard was updated September 1, 2022 [87 FR 53657] with an effective date of December 3, 2022.

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 participated in two ASTM task group meetings. Staff worked with the task group to update the Ad Hoc Warning Language, stability requirements, and the dynamic load test. Additionally, staff prepared a briefing package for Commission consideration on the revision to the standard published in ASTM F2549-22.

Meeting(s) Staff participated in tasks group meetings for testing updates and editorial and Ad Hoc language updates.

Communication(s)	Date	Type	Summary
	9/15/2022	Data	Staff provided the subcommittee with the annual summary of incident data for frame child carriers from 6/10/2021-8/24/2022.

Ballot(s)	Date	Voluntary	Summary and Results (If Applicable)
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closed	Standard	
March 2022	ASTM F2549	Ballot F15(22-02) item (5) added new test requirements, increased the scope of products covered, corrected incorrect citations and refined some passages, and updated Ad Hoc language. The ballot item passed.

Next Action Staff will attend the next subcommittee meeting, when scheduled. Staff will monitor regulations.gov for any negative comments on the rule amendment, which will be effective on December 3, 2022.

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 listed here 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 data on full-size cribs and participated in a task group meeting to discuss proposed sleep angle requirements for full-size cribs and other infant sleep products.

Meeting(s) Staff participated in an ASTM task group meeting to discuss proposed requirements for full-size cribs, non-full-size cribs, and play yards that would address the incline angle and other aspects of these products.

Communication(s)	Date	Type	Summary
	10/20/2021	Data	Staff provided the subcommittee with summarized incident data for full-size cribs from January 2017 through July 2021.

8/31/2022	Data	Staff provided the subcommittee with summarized incident data for full-size cribs from August 2020 through August 2022.
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Ballot(s) There were no ballots during the reporting period.

Next Action Staff will participate in any upcoming subcommittee meetings.

Gates and Expandable Enclosures

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

Staff Contact Torres, Carlos

Voluntary Standard(s)	Designation and current version	Title
	ASTM F1004-22	<i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures</i>

Standard(s) Update On July 25, 2022, ASTM notified staff that it had published ASTM F1004-22, the latest revision to the *Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures*. The revision to ASTM F1004-22 consists of changes to the illustrated examples of warning labels referenced as Figures in Section 8.4.7. This change reflects the requirement in Section 8.5.7 for pressure-mounted gates to have a separate warning, specific to installation of wall cups, if the design of that gate relies on the wall cups to meet the push-out force requirements.

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

A notice of availability and request for comments was published on August 4, 2022 [87 FR 47729].

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 subcommittee and task group meetings on retractable gates. Additionally, staff is preparing a briefing package for Commission consideration on the revisions to the standard published in ASTM F1004-22.

Meeting(s) Staff participated in subcommittee and a group meetings on retractable gates. Staff raised the issue with retractable gates in a 2020 letter, providing data to the subcommittee and advocating for a new fabric performance requirement for certain types of gates. Fabric may stretch or loosen during routine use, resulting in a possible hazard. Also, staff suggested including a warning label on the “hook side” of the gate to alert consumers about these issues. Staff participated in subcommittee and task group meetings to correct the illustrative warning examples (for on-product warning label) in the standard and clarify the warning requirements for packaging and instructions pertaining to wall cups.

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
May 2022	ASTM F1004	Ballot F15(22-04) item (3) addressed the illustrative warning examples (for on-product warning labels) in the standard for pressure-mounted gate wall cups. The item passed.

Next Action Staff will participate in upcoming subcommittee meetings in October 2022. Staff will present a briefing package for Commission consideration on the revisions to the standard published in ASTM F1004-22.

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 listed here 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. Staff provided the subcommittee with a summary of recent incident data.

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

Communication(s)

Date	Type	Summary
9/9/2022	Data	Staff provided the subcommittee with summarized incident data for full-size cribs from June 2021 through June 2022.

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

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

High Chairs

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

Staff Contact Marques, Stefanie

Voluntary Standard(s)

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

Standard(s) Update On January 24, 2022, ASTM notified the Commission that it had published ASTM F404-21, the latest revision to the *Standard Consumer Safety Specification for High Chairs*. This revision includes clarifications to improve accurate placement of the test weight for stability testing.

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

The mandatory standard was updated on July 18, 2022 [87 FR 42636], with an effective date of July 23, 2022.

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

consideration on the revision to the standard published in ASTM F404-21.

Meeting(s) Staff participated in a meeting where the subcommittee discussed ballot results and moved the standard forward for publication.

Communication(s)

Date	Type	Summary
10/20/2021	Incident Data	Staff provided the subcommittee with the incident data for high chairs from March 2017 through July 2021.

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

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

Infant Bath Seats

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

Staff Contact Kish, Celestine

Voluntary Standard(s)

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

Standard(s) Update The voluntary standard listed here 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 provided the subcommittee with a summary of recent incident data and requested that the subcommittee add a discussion of the test surface wording in the standard to the October 2022 subcommittee meeting.

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

<i>Communication(s)</i>	Date	Type	Summary
	6/8/2022	Data	Staff provided the new subcommittee chair with incident data for infant bathers, bath seats, and bath tubs that had been previously supplied in 2020 and 2021.

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

Next Action Staff will participate in the next ASTM subcommittee meeting in October 2022.

Infant Bath Tubs

Purpose To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant 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 On March 28, 2022, ASTM provided notification to CPSC of the latest revision to ASTM F2670-22, *Standard Consumer Safety Specification for Infant Bath Tubs*. This revision includes changes to the introduction, references, marking and labeling provisions, and resistance to collapse testing.

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

The mandatory standard was updated on June 24, 2022 [87 FR 37732], with an effective date of September 24, 2022.

Activities Summary Staff continues to work with the ASTM F15.20 subcommittee on issues related to stability and resistance to collapse of infant bath tubs. During the reporting period, staff participated in subcommittee and task group meetings on stability and resistance to collapse. Staff also prepared a briefing package for Commission consideration on the revision to the standard published in ASTM F2670-22.

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

Communication(s)	Date	Type	Summary
	6/8/2022	Data	Staff provided the new subcommittee chair with incident data for infant bathers, bath seats, and bath tubs that had been previously supplied in 2020 and 2021.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	ASTM F2670	Ballot F15(21-10) item (4) addressed latching and locking mechanisms. The ballot item passed.
	January 2022	ASTM F2670	Ballot F15(21-10) item (5) sought to find a negative vote on ballot F15(21-06) item (4) regarding language requirements on warnings not persuasive. The ballot item passed.

Next Action Staff will participate in the upcoming subcommittee meeting in October 2022.

Infant Bouncer Seats

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

Staff Contact Wanna-Nakamura, Suad

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

Standard(s) Update On June 22, 2022, ASTM notified CPSC of the latest revision to the standard, ASTM F2167-22, *Standard Consumer Safety Specification for Infant Bouncer Seats*. This revision includes changes to suffocation hazard warnings to clarify that the product is not intended for sleep.

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

A notice of availability and request for comments was published on July 28, 2022 [87 FR 54362]. The mandatory standard was updated on September 6, 2022 [87 FR 54366], with an effective date of December 19, 2022.

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 incident data to the subcommittee, reviewed a ballot proposal, and delivered a briefing package on the revision to the standard for Commission consideration.

Meeting(s) Staff participated in subcommittee meetings, where ballot results and incident data were discussed.

Communication(s)

Date	Type	Summary
10/20/2021	Data	Staff provided the subcommittee with the incident data for infant bouncer seats from June 2017 through July 2021.
6/1/2022	Data	Staff provided a summary of the annual incident data for the period ending 4/18/2022.
8/10/2022	Data	Staff provided the subcommittee with the incident data for infant bouncer seats for the period January 2017 through March 2022.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
January 2022	ASTM F2167	Ballot F15(21-10) item (7) addressed warning language. The ballot item passed.
April 2022	ASTM F2167	Ballot F15(22-03) item (3) proposed to find a negative vote not related, allowing F15(21-10) item (7) to pass.

Next Action Staff will participate in upcoming subcommittee meetings in October 2022.

Infant Sleep Products

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

Staff Contact Kish, Celestine

Voluntary Standard(s)

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

Standard(s) Update The voluntary standard listed here was withdrawn on September 16, 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 provided feedback to the subcommittee chair on the proposed draft changes to the standard. Staff also voted negative on the balloted changes to the standard.

Meeting(s)

Staff attended subcommittee meetings that discussed revisions to the standard in line with the new infant sleep products rule. The subcommittee decided to ballot to withdraw the standard.

Communication(s)

Date	Type	Summary
October 1, 2021	Letter	Staff provided the ASTM F15.18 subcommittee chair with comments to the proposed draft changes to the standard.
January 12, 2022	Letter	Staff provided the ASTM F15.18 subcommittee with a formal response to the negative vote on ballot F15(21-10) item 3.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
January 2022	ASTM F3118	Ballot F15(21-10) item 3 removed “inclined” from the title and made changes to create a more inclusive standard for different infant sleep products. Staff submitted a negative vote due to the changes not fully aligning with the agency final rule. The ballot item was unresolved at the end of the reporting period.
August 2022	ASTM F3118	Ballot F15(21-10) item (9) proposed withdrawing the standard from publication due to the CPSC Infant Sleep Products Rule. The item passed.

Next Action

Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting scheduled in October 2022.

Infant Swings

Purpose

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

Staff Contact

Torres, Carlos

Voluntary Standard(s)

Designation and current version	Title
ASTM F2088-22	<i>Standard Consumer Safety Specification for Infant and Cradle Swings</i>

Standard(s) Update

On July 5, 2022, ASTM notified CPSC of the latest revision to the standard, ASTM F2088-22, *Standard Consumer Safety Specification for Infant and Cradle Swings*. This revision includes changes to the warning language related to infant swings not being safe for infant sleep.

Relevant Rulemaking

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

The mandatory standard was updated on October 28, 2021 [86 FR 59609], with an effective date of January 29, 2022. The mandatory standard was updated again on September 20, 2022 [87 FR 57390], with an effective date of January 1, 2023.

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 provided comments and feedback on the definition of “tethered straps.” Staff provided recommendations on requirements and testing. Staff reiterated that the current length requirement (up to 16 inches) is not very effective for some current tethered straps designs. Additionally, staff prepared a briefing package on the revision to the standard published in ASTM F2088-22 for Commission consideration.

Meeting(s)

Staff participated in subcommittee and task group meetings on safe infant sleep warnings ballot results and meetings on requirements related to strangulation hazards of tethered straps.

Communication(s)

Date	Type	Summary
8/10/2022	Data	Staff provided the subcommittee with the incident data for infant swings from 1/1/2010 through 8/7/2022.

Ballot(s)

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

Next Action Staff will participate in upcoming subcommittee meetings in October 2022.

Infant Walkers

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

Staff Contact Mordecai, Ben

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

Standard(s) Update On August 29, 2022, ASTM provided notification to CPSC of the latest revision to the standard, ASTM F977-22, *Standard Consumer Safety Specification for Infant Walkers*. This revision includes changes to the test methods to make them more stringent, as well as notes related to performing certain testing procedures.

Relevant Rulemaking 16 CFR part 1216, *Safety Standard for Infant Walkers*
Note: 16 CFR Part 1216 references the -12 version.

A notice of availability and request for comments was published on September 9, 2022 [87 FR 55413].

Activities Summary Staff continues to work with the ASTM F15.17 subcommittee on safety issues related to infant walkers. During the reporting period, staff participated in meetings on the new revision to the standard, reviewed a ballot proposal, and prepared a briefing package on the revision to the standard for Commission consideration.

Meeting(s) Staff participated in a subcommittee meeting where ballot results were discussed.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	October 2021	ASTM F977	Ballot F15(21-07, item 2) addressed revisions to notes that provided recommendations for performing certain procedures. A negative

		vote related to the influence of these notes being more than a “best practice” was found persuasive. The item was removed from the ballot.
May 2022	ASTM F977	Ballot F15(22-04, item 4) addressed revisions to notes that provided recommendations for performing certain procedures and addressed issues raised in a previous negative vote. The item passed.

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

Non-Full-Sized Cribs and Play Yards

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

Staff Contact DeGrano, Frederick

Voluntary Standard(s)	Designation and current version	Title
	ASTM F406-19	<i>Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards</i>

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

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

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 task groups and related activities, voted on and provided an alternate test method to a proposed gap measurement, and presented a crib mattresses final rule to the Commission.

Meeting(s) Staff attended a subcommittee meetings and multiple task group meetings. In these meetings, staff reiterated issues with measuring the gap between the mattress and wall of the play yard and submitted a proposed test method to the subcommittee for consideration. Additionally, staff attended task group meetings covering sleep angle,

zipper access, hybrid scope interpretation, mattress floor definition, and Ad Hoc Warning Language.

Communication(s)

Date	Type	Summary
February 15, 2022	Letter	Staff provided the ASTM F15.18 with a formal response to the negative vote on ballot F15(22-01) item 5.
March 7, 2022	Letter	Staff proposed an alternate test method for measuring gaps between a play yard mattress and side wall to that proposed in ballot F15(22-01) item 5.
March 10, 2022	Data	Staff provided summary play yard incident data to the subcommittee for the period 7/7/2020 to 7/7/2021.
4/27/2022	Letter	Staff provided the ASTM F15.18 with a formal response to the abstention with comment on ballot F15(22-04) item 6.
8/19/2022	Data	Staff provided the subcommittee with a summary of the annual incident data for play yards from 7/7/2021 through 7/20/2022.
9/21/2022	Data	Staff provided the subcommittee with redacted IDIs for two fatal co-sleeping incidents associated with play yards.
9/26/2022	Data	Staff provided the subcommittee with an update to the summary of the annual incident data for play yards from 7/7/2021 through 7/20/2022.
9/26/2022	Data	Staff provided the subcommittee with a summary of the annual incident data for non-full-size cribs from 8/15/2021 through 8/15/2022.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2021	ASTM F406	Ballot F15(21-07) item 3 proposed Ad Hoc Language updates and a non-mandatory appendix for reference materials.
January 2022	ASTM F406	Ballot F15(21-10) item 1 proposed clarifying language for measuring the free length of a cord or strap and a requirement for any such component to have a loop. The item was approved.
February 2022	ASTM F406	Ballot F15(22-01) item 5 proposed allowing mattresses up to 2.0 inches thick, with a gap requirement for mattresses more than 1.5 inches thick and a proposed method for testing

		the gap. Staff submitted a negative vote. The ballot item was approved once the negative votes were either withdrawn or voted nonpersuasive through ballot F15(22-10).
March 2022	ASTM F406	Ballot F15(22-02) item 2 proposed new scope language for products “for play only.” The ballot item was approved.
May 2022	ASTM F406	Ballot F15(22-04) item 5 proposed new Ad Hoc Language updates on instructional literature. The ballot item was unresolved at the end of the reporting period. The item remained unresolved at the end of the reporting period.
May 2022	ASTM F406	Ballot F15(22-04) item 6 proposed new Ad Hoc Language updates on warnings. The ballot item was unresolved at the end of the reporting period. Two negative votes were found persuasive.
August 2022	ASTM F406	Ballot F15(22-10) items 1-5 proposed to find several votes on ballot F15(22-01) item 5 nonpersuasive. All ballot items were approved

Next Action

Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting scheduled in October 2022.

Portable Bed Rails (Children’s)

Purpose

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

Staff Contact

Lee, Kevin

Voluntary Standard(s)

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

Standard(s) Update

The voluntary standard listed here 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 participated in a subcommittee meeting and provided incident data to the subcommittee.

Meeting(s) Staff participated in an ASTM F15.11 subcommittee meeting.

Date	Type	Summary
10/20/2021	Data	Staff provided the subcommittee with the incident data for children's portable bed rails from April 2020 through August 2021.

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

Next Action Staff will participate in the next subcommittee meetings, scheduled for October 2022.

Portable Hook-On Chairs

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

Staff Contact Lee, Kevin

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 listed here 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 incident data to the subcommittee.

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

Date	Type	Summary
6/9/2022	Incident Data	Staff provided the subcommittee with a summary of the incident data for children's

		hook-on chairs from 10/31/2018 through 11/15/2021.
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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, when scheduled.

Sling Carriers (Infant and Toddlers)

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

Staff Contact Foster, Zachary

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2907-21	Consumer Safety Specification for Sling Carriers

Standard(s) Update In January 2022, ASTM published a revision to ASTM F2907-19, ASTM F2907-21, *Consumer Safety Specification for Sling Carriers*. During the final editing process, staff noted a conflict in two of the figures included the revision. ASTM elected to issue a ballot to correct this conflict and delay notification until a revised version of the standard could be published.

On May 23, 2022, ASTM notified CPSC of the latest revision to the standard, ASTM F2907-22, *Standard Consumer Safety Specification for Sling Carriers*. This revision includes changes to Ad Hoc Language, warnings, and pictograms.

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

On August 19, 2022, the Commission published the direct final rule 16 CFR part 1228, *Safety Standard for Sling Carriers* (87 FR 50934) with an effective date of November 19, 2022.

Activities Summary Staff continues to work with the ASTM F15.21 subcommittee on sling carrier products. During the reporting period, staff participated in multiple task group meetings to re-examine the scope and testing requirements and provided summary incident data to the subcommittee.

Meeting(s) Staff participated in an ASTM F15.21 subcommittee meeting and multiple task group meetings where scope and testing were discussed.

Communication(s)	Date	Type	Summary
	8/3/2022	Data	Staff provided the subcommittee with a summary of the incident data for sling carriers from 1/1/2015 through 6/9/2022.

Applicable Ballot(s)	Date Closed	Voluntary Standard	Summary and Results (If Applicable)
	October 2021	ASTM F2907	Ballot F15(22-02) item 7 included Ad Hoc language and warning updates. The ballot item passed.
	January 2022	ASTM F2907	Ballot F15(22-02) item 6 updated pictograms. The ballot item passed.

Next Action Staff will participate in the subcommittee meeting in October 2022.

Soft Infant and Toddler Carriers

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

Staff Contact Zachary Foster

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

Standard(s) Update The voluntary standard listed here 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 summary 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
8/3/2022	Data	Staff provided the subcommittee with a summary of the incident data for sling carriers from 1/1/2015 through 6/9/2022.

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

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

Stationary Activity Centers

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

Staff Contact Lee, Kevin

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 listed here 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 task group meeting and provided incident data to the subcommittee.

Meeting(s) Staff participated in a voluntary standards task group meeting related to a redundant suspension strap and life cycle testing.

Communication(s)

Date	Type	Summary
10/20/2021	Incident Data	Staff provided the subcommittee with the incident data for stationary

		activity centers from March 2018 through July 2021.
5/31/2022	Data	Staff provided the subcommittee with the annual summary incident data for stationary activity centers from 3/8/2021 through 3/18/2022.

Applicable Ballot(s)

Date Closed	Voluntary Standard	Summary and Results (If Applicable)
August 2022	ASTM F2012	Ballot F 15(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 F 15(22-12) item 2 updated pictograms. The ballot item remained unresolved at the end of the reporting period.

Next Action

Staff will participate in the next subcommittee meeting, scheduled October 2022.

Toddler Beds

Purpose

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

Staff Contact

Kish, Celestine

Voluntary Standard(s)

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

Standard(s) Update

The voluntary standard listed here 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 participated in a subcommittee meeting and provided incident data to the subcommittee.

Meeting(s) Staff participated in a subcommittee meeting where a victim who lost his son in a bunk bed incident asked the subcommittee to develop safety requirements and warnings for toddler beds.

<i>Communication(s)</i>	Date	Type	Summary
	7/28/2022	Data	Staff provided the subcommittee with a summary of the annual incident data for toddler beds from 7/6/2021 through 7/25/2022.

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

Next Action Staff will participate in the next ASTM subcommittee meeting, scheduled for October 2022.

Other Children’s Products and Hazards

Child-Resistant Packages (CRP)

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

Staff Contact Eilbert, Mark

Voluntary Standard(s)	Designation and current version	Title
	ASTM D3475-20	<i>Standard Classification of Child-Resistant Packages</i>
	ASTM F17-20	<i>Standard Terminology Relating to Primary Barrier Packaging</i>
	ASTM F3375-19	<i>Standard Test Method for Assessing Non-Metered Restricted Delivery Systems for Liquid Consumer Products</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 On October 12, 2022, ASTM D7860-14(2022) was reapproved without change.

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

Activities Summary During the reporting period, staff participated in subcommittee meetings and requested that the subcommittee notify staff of upcoming meetings in the review of D7860-14 *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*.

Meeting(s) Staff participated in subcommittee meetings by teleconference, including subcommittee F02.25 on Rigid Container Closure Systems where the review of D7860-14 was announced.

Communication(s)

Date	Type	Summary
10/7/2022	email	Request to ASTM subcommittee chair to participate in review of ASTM D7860-14.

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

Next Action Staff will participate in upcoming subcommittee meetings in October 2022.

Crib Bumpers

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

Staff Contact Smith, Tim

Voluntary Standard(s)

Designation and current version	Title
ASTM F1917-20e1	<i>Standard Consumer Safety Specification for Infant Bedding and Related Accessories</i>

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

Relevant Rulemaking The NPR for 16 CFR part 1240, *Safety Standard for Crib Bumpers/Liners* was published in the *Federal Register* (85 FR 18878) on April 3, 2020. In July 2022, following passage of the Safe Sleep for Babies Act of 2021 (SSBA), and its designation of crib bumpers as banned hazardous

products under section 8 of the CPSA, the Commission terminated rulemaking. An NPR for 16 CFR part 1309, *Ban of Crib Bumpers*, to codify the ban on “crib bumpers,” as defined by the SSBA, was published in the *Federal Register* (87 FR 44307) on July 26, 2022.

Activities Summary Staff continues to work with the ASTM F15.19 subcommittee on infant bedding. Staff participated in two subcommittee meetings during the reporting period.

Meeting(s) Staff participated in two subcommittee meetings where staff answered questions about the crib bumpers rulemaking activity and the SSBA. The subcommittee also discussed a transcription error in the standard, identified by staff, that needed correction.

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

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

Next Action Staff will participate in the next Infant Bedding subcommittee meeting, scheduled for October 2022. Staff will continue rulemaking activities in support of the SSBA.

Gasoline Containers, Child Resistance

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

Staff Contact Ayers, Scott

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

Standard(s) Update In July 2022 ASTM published ASTM F2517-22 and then again in August 2022, ASTM published ASTM F2517-22e1, *Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use* with editorial corrections to ASTM F2517-22. The current revision of the standard includes changes to scope, wording, and testing requirements.

On September 1, 2022, ASTM notified CPSC of the latest revision to the standard, ASTM F2517-22e1, *Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use*.

Relevant Rulemaking

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

Staff was preparing a briefing package for Commission consideration on the revision to the standard at the end of the reporting period.

Activities Summary

Staff worked with the ASTM F15.10 subcommittee to revise the voluntary standard to expand the scope to allow this standard to be used on other portable fuel containers other than gasoline, diesel, and kerosene containers; to improve the readability and reduce ambiguities in the voluntary standard; and to revise the adult test to include younger adults, more men, and develop a new method to screen participants.

Meeting(s)

Staff met with the task group revising ASTM F2517 twice to discuss and then reach consensus on proposed changes to the standard.

Communication(s)

There were no formal communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
February 2022	ASTM F2517	Ballot (F15(22-01)) item 2 proposed a new adult test to replace the senior test. The ballot item passed.
February 2022	ASTM F2517	Ballot (F15(22-01)) item 3 proposed improved readability of the child test procedure and changed instructions given to the child to remove ambiguities. The ballot item passed.
February 2022	ASTM F2517	Ballot (F15(22-01)) item 4 proposed changes to the scope that allows other portable fuel containers to test to this standard. The ballot item passed.
May 2022	ASTM F2517	Ballot F15(22-04) items 1 and 2 proposed to find two negative votes nonpersuasive. The ballot items passed.

Next Action

Staff will continue to participate with the ASTM F15.10 subcommittee on the voluntary standard. Staff will deliver a briefing package to the Commission on the revised standard.

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
	[Awaiting ASTM designation]	Potential new voluntary standard for Infant Loungers
	[Awaiting ASTM designation]	Potential new voluntary standard for Feeding and Infant Support Products

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

Relevant Rulemaking N/A

Activities Summary Staff began work with ASTM F15.16, -19, and -21 subcommittees to develop new safety standards for infant support pillows and nursing support products. During the reporting period, staff provided relevant incident data to the ASTM F15.16 Infant Feeding Support Products subcommittee and the F15.21 Infant Loungers subcommittee. Staff also participated in subcommittee and task group meetings for these ASTM subcommittees to assist in the development of voluntary standards for each of these product categories.

Meeting(s) Staff attended multiple subcommittee and task group meetings for infant loungers and infant feeding support products. Because these are both new efforts, meeting activity has been focused on scope determination and incident data review.

Communication(s)	Date	Type	Summary
	December 13, 2021	Letter/Incident Data	Staff requested the formation of a subcommittee to address hazards associated with infant support pillows. Along with the letter, staff provided data for nursing pillows and for infant loungers and other support pillows.
	May 11, 2022	Data	Staff provided the F15.21 Infant Loungers subcommittee with data on playmat-related incidents to children 1

		year old and younger from 1/1/2021 to 2/28/2022.
July 18, 2022	Data	Staff provided the F15.16 Infant Feeding Support Products subcommittee with incident data for all pillow-associated incidents involving infants from 1/1/2010 to 12/31/2021.

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 meetings scheduled in October 2022.

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

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

Relevant Rulemaking 16 CFR part 1250, *Safety Standard for Toys*

Activities Summary Staff continues to work with the ASTM F15.22 subcommittee on toy safety issues. During the reporting period, staff engaged with ASTM on the below ballots, participated in task group meetings and provided feedback on the agency's position for improving safety. Staff is expecting ASTM to publish a new revision to the standard in Winter 2023. Additionally, staff participated in several ISO TAG meetings.

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

Meeting(s)

Staff attended several ISO TAG meetings, for Working Group (WG) 1, WG 6, and WG 9. Staff also attended a subcommittee meeting where previously issued ballots were discussed.

Staff participated in two ASTM D20.70 meetings during the reporting period. Staff volunteered to participating in an interlaboratory study (ILS) for ASTM D7823 and ASTM D8133.

Communication(s)

Date	Type	Summary
October 14, 2021	Letter	Staff provided a formal response to the subcommittee supporting ballot F15(21-07) item 9.
8/11/2022	Letter	Staff raised concerns with aquatic toy products.
8/19/2022	Letter	Staff raised concerns with button battery accessibility in toys.

Applicable Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2021	ASTM F963	Ballot F15(21-07) item 8 dealt with ingestion hazards related to expanding toys. The ballot item was unresolved at the end of the reporting period.
October 2021	ASTM F963	Ballot F15(21-07) item 9 added an A-weighted limit for push or pull toys. The ballot item was removed.
October 2021	ASTM F963	Ballot F15(21-07) item 10 updated phthalate requirements. The ballot item was unresolved at the end of the reporting period.
October 2021	ASTM F963	Ballot F15(21-07) item 11 updated CPSC exemptions from testing. The ballot item was removed.
October 2021	ASTM F963	Ballot F15(21-07) item 12 clarified alternative testing steps. The ballot item was removed.
October 2021	ASTM F963	Ballot F15(21-07) item 13 moved and revised the definition of paper. The ballot item was removed.
October 2021	ASTM F963	Ballot F15(21-07) item 14 updated labeling requirements. The ballot item

		was unresolved at the end of the reporting period.
October 2021	ASTM F963	Ballot F15(21-07) item 15 updated the definition of accessibility. The ballot item was removed.
October 2021	ASTM F963	Ballot F15(21-07) item 16 updated the warnings on stroller and carriage toys. The ballot item was removed.
January 2022	ASTM F963	Ballot F15(21-10) items 8 and 9 proposed to find two negative votes on ballot F15(21-07) item 14 nonpersuasive. The ballot items passed.

Next Action Staff will participate in upcoming ASTM task group meetings or subcommittee meetings, when scheduled. Staff expects to start the ASTM D20.70 ILS work on ASTM D8133 in 2023.

Emerging Technology

Additive Manufacturing/3D Printing

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

Staff Contact Thomas, Treye

Voluntary Standard(s)	Designation and current version	Title
	UL 2904, 1 st Edition	<i>Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers</i>
	ASTM WK69730	Potential new voluntary standard for wired directed-energy deposition processes

Standard(s) Update The STP developed a second edition of the UL 2904 and brought it to ballot on September 16, 2022. The update included an appendix on health and safety best practices developed by a working led by CPSC staff.

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. 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.

Meeting(s) Staff attended several UL STP 2904 meetings discussing comments from the industry review of the next edition to the standard. Staff also attended an ASTM F42,07 meeting on 3D printing home construction.

Staff lead two meetings of a UL STP 2904 task group to address the hazards associated with 3D printer emissions in small manufacturer and home use scenarios..

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
April 2022	ASTM WK69730	Ballot item (F42 22-06, Item 1) proposed a new standard guide for wire arc energy directed deposition. The ballot remained unresolved at the end of the reporting period.
November 2022	UL 2904	The ballot for the second addition of the standard opened in September. The revision proposed updated analytical methods and guidance for the safe use of 3D printers. The ballot was still open at the end of the reporting period.

Next Action Staff expects the balloted second edition of the standard to be approved and released in fall 2022. These updates include the safety guidance document for 3D printers.

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 15, 2022. The revision includes changes to the safety case framework and adding specific examples for autonomous trucks or vehicles, which could be applicable to future autonomous products.

Relevant Rulemaking

N/A

Activities Summary

CPSC staff continues to identify opportunities to improve the safety of consumer products using 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 where discussions included consolidation of UL 4600-2 into the baseline UL 4600 standard and scope of the standard. Staff’s specific questions and comments included stating and reiterating CPSC’s main safety concerns, mission, and jurisdiction, which is the autonomous products or systems portion of the UL 4600 (autonomous products not intended for roads).

Communication(s)

There were no communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
September 2022	UL 4600	Ballot proposed to establish the standard for ANSI approval. There were comments from the ballot review from STP that are still being resolved as of the end of the reporting period.

Next Action

Staff plans to participate in the next UL STP 4600 meeting on December 8 and December 13 to address the revision comments and ongoing proposal topics. Staff will continue to monitor and participate in other applicable VS, 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 October 2021, ASTM published ASTM F3463-21, *Standard Guide for Ensuring the Safety of Connected Consumer Products*. The voluntary standard was revised to clarify language and the objective, define the term *consumer product*, outline how the guide could be applied, and update references.

Relevant Rulemaking N/A

Activities Summary CPSC staff continues to work to improve the safety of connected consumer products. During the reporting period, staff participated in several UL STP 2900-1 and task group meetings.

Meeting(s) Staff participated in an STP meeting where two task groups were formed for the glossary and documentation sections. Staff participated in meetings of both task groups.

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

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

Next Action Staff plans to continue to participate in STP and TG meetings.

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
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ASTM E3025-16	<i>Standard Guide for Tiered Approach to Detection and Characterization of Manufactured Silver Nanomaterials in Textiles</i>
ASTM E2525-08 (2013) (Withdrawn)	<i>Standard Test Method for Evaluation of the Effect of Nanoparticulate Materials on the Formation of Mouse Granulocyte-Macrophage Colonies</i>
ASTM E3171-21	<i>Standard Test Method for Determination of Total Silver in Textiles by ICP-OES or ICP-MS Analysis</i>
ASTM E3238-20	<i>Standard Test Method for Quantitative Measurement of the Chemoattractant Capacity of a Nanoparticulate Material in vitro</i>
ASTM WK60553	Potential new voluntary standard for evaluation of nanoparticulate material internalization by phagocytic cells in vitro
ASTM E3351-22 (previously WK60554)	<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 July 2022, the new standard ASTM E3351-22, *Standard Test Method for Detection of Nitric Oxide Production In Vitro*, was published.

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.

Meeting(s)

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

Staff also participated in ASTM E56 committee meetings where, among other items discussed, staff participated in discussions on revising ASTM E3025.

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
June 2022	ASTM E3351	Ballot item E56(22-02) item 1 proposed to establish the work item as a new standard. The ballot item was approved.
August 2022	ASTM E3025	Ballot item E56(22-03) Item 5 sought to review the standard after five years of publication. The ballot item was removed with a persuasive negative vote.
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 was still open at the end of the reporting period.

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

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

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

Staff Contact 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 listed here was not updated during the reporting period. The STP is currently developing the first draft of the standard.

Relevant Rulemaking N/A

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

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

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

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

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

Wearables

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

Staff Contact Thomas, Treye

Voluntary Standard(s)	Designation and current version	Title
	UL 8400	Potential new voluntary standard for the safety for virtual reality (VR), augmented reality (AR) and mixed reality (MR) technology equipment

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

Relevant Rulemaking N/A

Activities Summary Staff continued to work with the UL STP to improve the draft standard. During the reporting period, staff participated in numerous task groups and STP meetings, and emphasized safety concerns for the subject immersive technologies, particularly regarding foreseeable, inappropriate use of the products by vulnerable age groups, and regarding the importance of normative requirements. The STP balloted the draft standard (closed 08/02/2022), and staff submitted a letter accompanying their abstention vote, which recommended improvements to the draft standard.

Meeting(s) Staff participated in regular, reoccurring STP and task group meetings for UL STP 8400, pertaining to safety and warning instructions, vulnerable age groups, and enhancing spatial perception. After the ballot closed, staff participated heavily in STP discussions reviewing the ballot comments, and staff recommended ways to improve the draft standard.

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

<i>Ballot(s)</i>	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	August 2022	UL 8400	Ballot proposed to establish the draft as a new standard. The ballot item was unresolved at the end of the reporting period.

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

Home Products and Hazards

Adult Portable Bed Rails

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

Staff Contact Dayal, Vineed

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3186-17	<i>Standard Specification for Adult Portable Bed Rails and Related Products</i>

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

Relevant Rulemaking Petition CP 13-1 *Petition on Adult Portable Bedrails* was docketed in June 2013. The Commission voted to grant the petition on March 15, 2022, directing staff to draft a notice of proposed rulemaking. Staff delivered a briefing package for Commission consideration at the end of the reporting period.

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 reviewed proposed revisions 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. Additionally,

staff presented a summary of market compliance testing to the subcommittee.

<i>Communication(s)</i>	Date	Type	Summary
	6/10/2022	Letter	Staff provided recommendations for revision of the standard.

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

Next Action Staff will continue to work with the task group to review the remainder of the standard and discuss other proposals, as well as develop rulemaking briefing packages for Commission consideration.

Bath Tubs (Adult)

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

Staff Contact Bowley, Susan

<i>Voluntary Standard(s)</i>	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 listed here 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 provided data on falls in bath tubs and showers over a 10-year period, participated in subcommittee meetings, and provided feedback on the agency’s contract related to creating Reference Surfaces for testing and performing a human research study (Arizona State University/ASU).

Meeting(s) Staff participated in several task group meetings focused on incident data review, 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.

<i>Communication(s)</i>	Date	Type	Summary
	11/23/2021	Incident Data	Staff provided the subcommittee with fall-related bath tub and shower incident data for the period August 2010 through August 2021.

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

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled. Staff will share contract work results, when completed (expected contract completion date in December 2022).

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 eBikes</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</i>

	<i>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 listed here were not updated during the reporting period.

Relevant Rulemaking N/A

Activities Summary Staff continues to work with both ASTM and ULSE on improving the overall safety of the battery powered products with primary focus on e-mobility devices, including e-bikes. This impact also concerns 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 in October and March to discuss fire related battery issues.

Staff participated in UL STP 2849 meeting focused on functional safety for electrical safety of ebikes.

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

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

Next Action Staff will participate in UL STP 1642 meetings, when scheduled. Staff is participating in activities to transition OOI 2056 to a published standard.

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

Standard(s) Update

The voluntary standards listed here were not updated during the reporting period.

Relevant Rulemaking

On August 16, 2022, 15 U.S.C. § 2056e (Pub. L. No. 117-171), or Reese’s Law, was enacted, directing CPSC to “promulgate a final consumer product safety standard for button cell or coin batteries and consumer products containing button cell or coin batteries,” not later than 1 year after the date of enactment. The law also establishes a child-resistant packaging standard for button cell or coin battery packaging.

Activities Summary

During the reporting period, staff provided an update on the Staff FY 2022 NPR work for battery ingestion hazards. Staff continues to advocate for strong warning labels and child-resistant packaging for button and coin cell batteries in ANSI C18 standards. Reese’s Law was signed by President Biden on August 16, 2022, prompting staff to prepare a draft NPR briefing package to address the ingestion hazard, in accordance with the law.

Meeting(s)

Staff participated in NEMA/ANSI C18 meetings to discuss button and coin cell battery ingestion hazards.

Communication(s)

There were no communications during the reporting period.

Ballot(s)

There were no ballots during the reporting period

Next Action

Staff will participate in NEMA/ANSI C18 standards meetings and other related button and coin cell battery standards, including ASTM F963, as needed. Staff will prepare a draft NPR staff briefing package for the Commission to address the ingestion hazard, in accordance with Reese’s Law.

Candles and Candle Accessories

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

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2417-17	<i>Standard Specification for Fire Safety for Candles</i>
	ASTM F2601-18	<i>Standard Specification for Fire Safety for Candle Accessories</i>

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

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

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

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. Based on these data, staff supported adding changes that address candle-making kits, end of useful life, and wick migration, resulting in the formation of task groups in which staff is participating.

Staff participated in two meetings discussing possible changes to F2417. Staff participated in two meeting discussing requirements for candle-making kits.

Communication(s)	Date	Type	Summary
	2/15/2022	Incident Data	Staff provided a redacted IDI to the subcommittee to discuss during a future quarterly incident data teleconference.

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

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

The subcommittee plans to revise F2417 in FY 2023 and F2601 in FY 2024.

Carbon Monoxide (CO) Alarms

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

Staff Contact Brookman, Matthew J.

Voluntary Standard(s)	Designation and current version	Title
	UL 2034, 4 th Edition	<i>Single and Multiple Station Carbon Monoxide Alarms</i>
	NFPA 72®, 2022 Edition®	<i>National Fire Alarm and Signaling Code</i>

Standard(s) Update The voluntary standards listed here 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 drafted a letter of support for the long-term sensor stability test proposal. 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 did not participate in any voluntary standards meetings related to this topic during the reporting period.

Communication(s)	Date	Type	Summary
	2/24/2022	Letter	Staff supported the proposal for a sensor stability test protocol.

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

Next Action Staff will continue to support the activities of the technical committee and further development of the standard. Staff plans to complete the Smoke and CO Alarm survey in 2023, and release a report in FY 2024.

Clothing Storage Units Tip Over

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

Staff Contact Talcott, Kristen

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2057-19	<i>Standard Safety Specification for Clothing Storage Units</i>
	ASTM F3096-21	<i>Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)</i>

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

Relevant Rulemaking The Commission published an ANPR in November 2017 (82 FR 56752, Nov. 30, 2017) and an NPR, *Safety Standard for Clothing Storage Units*, in February 2022 (87 FR 6246, Feb. 3, 2022). Staff submitted a draft FR briefing package to the Commission in September 2022.

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, as well as 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 standard. Meetings included scope, interlocks, warning and labeling, tip restraint, and testing task groups. Staff briefed the subcommittee on the NPR and provided feedback on proposals.

Communication(s)	Date	Type	Summary
	6/3/2022	Letter	Staff provided statements to the F15.42 subcommittee chair with for negative votes on ballot items 1, 2, and 4-8 from F15(22-06).
	8/16/2022	Letter	Staff provided a statement to the F15.42 subcommittee chair with for negative votes on ballot items 1-8 from F15(22-11).

Ballot(s)	Date	Voluntary	Summary and Results (If Applicable)
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closed	Standard	
November 2021	ASTM F2057	ASTM F 15(21-08) item 2 proposed to address unit height measurements when adjustable feet are included. The item received negative votes and was removed from the ballot.
November 2021	ASTM F2057	ASTM F 15(21-08) item 3 proposed to remove the term <i>nightstand</i> from the standard, replacing it with a volume measurement threshold. The item received negative votes and was removed from the ballot.
November 2021	ASTM F2057	ASTM F 15(21-08) item 4 proposed language to address testing of interlocking drawers. The item received negative votes and was removed from the ballot.
June 2022	ASTM F2057	ASTM F 15(22-06) item 1 proposed changes to the warning label content, including warnings related to the interlock system. CPSC staff voted negative on the ballot item because staff was concerned that the proposed changes and other misalignments with the NPR warning label requirements did not provide sufficiently effective warnings. The ballot item received an additional technical negative, which was withdrawn. The subcommittee voted to find the CPSC staff negative non-persuasive.
June 2022	ASTM F2057	ASTM F 15(22-06) item 2 proposed changes to the warning label placement. CPSC staff voted negative on the ballot item because staff was concerned that the balloted changes did not ensure warning label conspicuity. The subcommittee voted to find the CPSC staff negative non-persuasive.
June 2022	ASTM F2057	ASTM F 15(22-06) item 4 proposed changes to the scope of the standard. CPSC staff voted negative on the ballot item because staff was concerned that the balloted changes did not align with the scope of the NPR, and, therefore, did not address the full range of products that pose a tip-over hazard. The subcommittee voted to find the CPSC staff negative non-persuasive.

June 2022	ASTM F2057	ASTM F15(22-06) item 5 proposed requirements for interlocking elements. CPSC staff voted negative on the ballot item because staff was concerned that balloted requirements allow consumers to use CSUs in untested, less stable configurations that pose a greater risk of tip over. The item received an additional technical negative, which was not withdrawn. The subcommittee voted to find the CPSC staff negative and the additional negative non-persuasive.
June 2022	ASTM F2057	ASTM F15(22-06) item 6 proposed changes to the requirements for the test weight. CPSC staff voted negative on the ballot item because staff was concerned that the balloted 60-pound test weight and associated stability test did not account for or simulate the forces from a dynamic child climbing interaction, which is a critical component of adequately addressing the tip-over hazard. The ballot item received an additional technical negative, which was withdrawn. The subcommittee voted to find the CPSC staff negative non-persuasive.
June 2022	ASTM F2057	ASTM F15(22-06) item 7 proposed requirements for an alternate test weight. CPSC staff voted negative on the ballot item because staff was concerned that the balloted 60-pound test weight and associated stability test did not account for or simulate the forces from a dynamic child climbing interaction, which is a critical component of adequately addressing the tip-over hazard. The ballot item received an additional technical negative, which was withdrawn. The subcommittee voted to find the CPSC staff negative non-persuasive.
June 2022	ASTM F2057	ASTM F15(22-06) item 8 proposed changes to the stability testing requirements. CPSC staff voted negative on the ballot item because staff was concerned that the balloted test did not simulate multiple simultaneous factors that are demonstrated to decrease stability and to simultaneously exist during known incidents— <i>i.e.</i> , multiple open/filled drawers, carpet, and

		forces from children’s dynamic interactions; that the static body weight in line with the edge of the drawer substantially underestimates the forces generated during child climbing interactions, which incident data show to be among the most common interactions; and that the pull force in the test in Section 9.2.2 was lower than demonstrated child strength, and did not appear to be a simulated dynamic force, as claimed. The ballot item received additional technical negatives, which were withdrawn. The subcommittee voted to find the CPSC staff negative non-persuasive.
June 2022	ASTM F2057	ASTM F15(22-07) item 1 proposed additional instructions for units with levelers to the stability testing requirements. The ballot item did not receive any technical negatives.
July 2022	ASTM F2057	ASTM F15(22-08) items 1-3 and 5-8 were to uphold negatives to find CPSC staff’s negatives on ASTM F15(22-08) items 1, 2, and 4-8 non-persuasive. The ballot items passed.
July 2022	ASTM F2057	ASTM F15(22-08) item 4 was to uphold negative to find a subcommittee member’s negative on ASTM F15(22-08) item 5 non-persuasive. The ballot item passed.
August 2022	ASTM F2057	ASTM F15(22-11) item 1 proposed changes to the stability testing requirements related to the rear floor support. CPSC staff voted negative on the ballot item, because staff was concerned that the balloted changes still did not account for real-world tip over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The subcommittee voted to find the CPSC staff negative non-persuasive.
August 2022	ASTM F2057	ASTM F15(22-11) item 2 proposed changes to the testing surface. CPSC staff voted negative on the ballot item, because staff was concerned that the balloted changes still did not account for real-world tip over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The item received two additional technical negatives,

		which were withdrawn. The subcommittee voted to find the CPSC staff negative non-persuasive.
August 2022	ASTM F2057	ASTM F15(22-11) item 3 proposed a clarification that a test was to be performed on the test surface. CPSC staff voted negative on the ballot item, because staff was concerned that the balloted changes still did not account for real-world tip over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The subcommittee voted to find the CPSC staff negative non-persuasive.
August 2022	ASTM F2057	ASTM F15(22-11) item 4 proposed changes to the stability testing requirements to clarify that the test apparatus is applied to only one door at a time. CPSC staff voted negative on the ballot item, because staff was concerned that the balloted changes still did not account for real-world tip over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The subcommittee voted to find the CPSC staff negative non-persuasive.
August 2022	ASTM F2057	ASTM F15(22-11) item 5 proposed updated figures showing the application of the test apparatus. CPSC staff voted negative on the ballot item, because staff was concerned that the balloted changes still did not account for real-world tip over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The subcommittee voted to find the CPSC staff negative non-persuasive.
August 2022	ASTM F2057	ASTM F15(22-11) item 6 proposed changes to the stability testing requirements for the horizontal pull test. CPSC staff voted negative on the ballot item, because staff was concerned that the balloted changes still did not account for real-world tip over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The

		subcommittee voted to find the CPSC staff negative non-persuasive.
August 2022	ASTM F2057	ASTM F15(22-11) item 7 proposed changes to the warning label example to match previously balloted language. CPSC staff voted negative on the ballot item because staff was concerned that the balloted changes still did not account for real-world tip-over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The subcommittee voted to find the CPSC staff negative non-persuasive.
August 2022	ASTM F2057	ASTM F15(22-11) item 8 proposed changes to the definition of “extendible element” to specifically exclude bins. CPSC staff voted negative on the ballot item because staff was concerned that the balloted changes still did not account for real-world, tip-over scenarios, such as a child climbing or pulling on a CSU with all the drawers filled and open. The subcommittee voted to find the CPSC staff negative non-persuasive.

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

Electric Heaters

Purpose To work with ULSE to address hyperthermia deaths caused by portable and room heaters and address risks of fire related to electric heater cords and plugs.

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 In February 2022, ULSE revised the current edition of UL 1278, *Standard for Movable and Wall- or Ceiling-Hung Electric Room Heaters*. The amended edition (February 21, 2022) includes new requirements for warnings and markings to address hyperthermia hazards. ULSE did not issue a new edition number with the revision.

Relevant Rulemaking

N/A

Activities Summary

In October 2021, ULSE sought preliminary review for a proposal for markings and labeling to address the hyperthermia hazard. Staff chaired the task group that addressed the comments from the preliminary review. The task group addressed the comments via email and prepared a ballot in December 2021. ULSE issued a ballot of the marking and labeling proposal in December 2021; the ballot closed in January 2022 and passed. Staff is also studying fire hazards related to electric heaters and has identified some cord and plug issues that the UL STP may be able to address.

Meeting(s)

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

Communication(s)

Date	Type	Summary
3/7/2022	Letter	Staff requested that the UL STP review findings of an internal CPSC report on inconsistent crimping, welding and/or soldering on the crimp connectors of heater plug blades.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
January 2022	UL 1278	Ballot to include requirements for warnings and markings to address hyperthermia hazards.

Next Action

Staff will work with the UL STP to address cord and plug fire related issues.

Fire Safety of Portable Fuel Containers and Gasoline Cans

Purpose

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

Staff Contact

Ayers, Scott

Voluntary Standard(s)

Designation and current version	Title
ASTM F3429 / ASTM F3429M-20	Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers

ASTM F852 / ASTM F852M-22	<i>Standard Specification for Portable Gasoline Kerosene, and Diesel Containers for Consumer Use</i>
ASTM F3326-21	<i>Standard Specification for Flame Mitigation Devices on Portable Fuel Containers</i>
ASTM F839-15	<i>Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use</i>
ANSI/CAN/UL/ULC 30:2022	<i>Standard for Safety Metallic and Nonmetallic Safety Cans for Flammable and Combustible Liquids</i>
NFPA 30, 2021 Edition	<i>Flammable and Combustible Liquids Code</i>

**Standard(s)
Update**

In October 2021, ASTM published ASTM F3326-21, *Standard Specification for Flame Mitigation Devices on Portable Fuel Containers*. The voluntary standard was revised to allow metal Flame Mitigation Devices (FMDs) in metal gasoline containers.

In January 2022, ASTM published ASTM F852 / F852M-22, *Standard Specification for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use*. The voluntary standard was revised to update heat-resistance requirements for the container body.

In April 2022, ULSE published ANSI/CAN/UL/ULC 30:2022, *Standard for Safety Metallic and Nonmetallic Safety Cans for Flammable and Combustible Liquids*. The voluntary standard was revised to include requirements for flame mitigation devices on safety cans, among other inclusions.

**Relevant
Rulemaking**

Portable Fuel Container Safety Act of 2020

On May 18, 2022, the Commission voted to approve a Notice of Availability for Staff draft document, “Voluntary Standards Evaluation Under the Portable Fuel Container Safety Act of 2020” (Briefing package dated May 11, 2022).

**Activities
Summary**

During the reporting period, staff worked with the UL STP 30 to revise the current edition of the voluntary standard safety. CPSC contracted with a testing laboratory to develop a performance test for flame mitigation devices on safety cans. The STP accepted the test for the next edition of UL 30. Staff is also gauging general industry compliance to ASTM F3429.

Meeting(s)

Staff participated in several UL STP 30 and task group meetings to develop a performance test for FMDs on safety cans. Some of these

meetings included a CPSC contractor who adapted the ASTM F3429 for safety cans.

Staff participated in an ASTM F15.72 subcommittee meeting that included discussions on FMDs and industry compliance to ASTM F3429.

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

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2022	UL 30	Recirculation ballot incorporated new FMD performance test and other items. The ballot passed with and will be published in April or May 2022.

Next Action

Staff will chair a meeting of the ASTM F15.72 task group responsible for ASTM F3429 / F3429M in October to discuss compliance to the voluntary standard and possible future requirements, including an evaluation of the standard as directed by the Commission.

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” and “natural refrigerants”).

Staff Contact

Ayers, Scott

Voluntary Standard(s)

Designation and current version	Title
UL/CSA 60335-2-24, 3 rd Edition	<i>Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers</i>
UL/CSA 60335-2-40, 3 rd Edition	<i>Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers</i>
ASHRAE 15.2	<i>Safety Standard for Refrigeration Systems in</i>

	Residential Applications
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Standard(s) Update

In May 2022, ASHRAE published ASHRAE Standard 15.2, *Safety Standard for Refrigeration Systems in Residential Application*. The new standard includes requirements for flammable refrigerants in low-rise residential buildings.

In July 2022, ULSE published UL/CSA 60335-2-24, 3rd Edition, *Safety Requirements for Household and Similar Electrical Appliances, Part 2, Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers*. The revised edition of the voluntary standard includes new requirements for flammable refrigerants, including labeling.

Relevant Rulemaking

N/A

Activities Summary

During the reporting period, staff worked with the CANENA UL/CSA 60335-2-40 group as it revised the voluntary standard. Additionally, staff provided comments to ASHRAE on the potential new voluntary standard ASHRAE 15.2P.

Meeting(s)

Staff participated in UL 60335-2-40 and ASHRAE 15/15.2 meetings, where staff provided input on both standards.

Communication(s)

Date	Type	Summary
3/15/2022	Formal Letter	Staff supporting statement on the fifth public review of the draft ASHRAE 15.2P standard

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2022	ASHRAE 15.2P	Fifth public review of the draft ASHRAE 15.P standard, addressing comments from the fourth public review. Results of the ballot led to publication of ASHRAE Standard 15.2.
March 2022	UL/CSA 60335-2-40	Recirculation of comments to revisions proposed in UL/CSA 60335-2-40. Staff expects that to be the last ballot and the next edition to publish in late 2023.

Next Action

Staff will participate with the ASHRAE 15.2 committee to address issues the standard may need to address. Staff will participate with the CANENA work group revising UL/CSA 60335-2-40, as needed. Staff will participate with the CANENA work group maintaining UL/CSA 60335-2-24 as needed.

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 Bowley, Susan

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 listed here were not updated during the reporting period.

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

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

Meeting(s) Staff participated in ASTM F13 main committee and subcommittee meetings. Topics included discussion of recent ballot results, standards up for review and new work items, including WK72780 for revision of ASTM F2508-16e1, and related slip-resistance efforts and research. Staff hosted a meeting with the Tile Council of North America (TCNA) to discuss ANSI A326.3-2021, *American National Standard Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials* (released February 2022).

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

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

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

Gas Appliances, CO Sensors

Purpose To work with technical committees on revising the voluntary standards to strengthen safety provisions addressing hazards associated with CO

risks due to failure modes, such as disconnected vents and partially blocked vents

Staff Contact Jordan, Ronald

Voluntary Standard(s)	Designation and current version	Title
	ANSI Z21.47-2016/ CSA 2.3-2016	<i>Gas-Fired Central Furnaces</i>
	ANSI Z21.13-2017/ CSA 4.9-2017	<i>Gas-Fired Low Pressure Steam and Hot Water Boilers</i>
	ANSI Z21.86-2016/ CSA 2.32-2016	<i>Vented Gas-Fired Space Heating Appliances</i>

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

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

Activities Summary Staff continues to monitor the activities of the technical committee and subcommittees for any developments related to CO safety. During the reporting period, staff corresponded with the SDO to obtain updates on standards activities.

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

Communication(s)	Date	Type	Summary
	10/27/2021	Email	Staff corresponded with the CSA TC project manager to determine whether the TC or TSCs were considering any CO safety-related improvements to the standards.

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

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

Gas Ranges

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

Staff Contact Ayers, Scott

Voluntary Standard(s)	Designation and current version	Title
	ANSI Z21.1-2016/ CSA 1.1-2016	Household Cooking Gas Appliances

Standard(s) Update The voluntary standard listed here 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 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 issues associated with gas ranges to possibly make recommendations or proposals to affected voluntary standards.

Meeting(s) Staff chaired two meetings of the CSA TSC, where the TSC focused on resolving open issues in preparation for the balloting of the draft of the next edition of the standard.

Staff met monthly with various industry, government, and advocacy stakeholders on reviewing IAQ issues associated with gas ranges. This group is still developing the workflow of establishing recommendations and proposals.

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

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

Next Action Staff will continue to chair the CSA TSC. Staff will participate in the next CSA TSC meeting, scheduled for October 6, 2022. Staff will also continue to participate with various industry, government, and advocacy stakeholders on reviewing IAQ issues associated with gas ranges as long as recommendations or proposals to voluntary standards bodies are the potential outcomes. The next meeting is scheduled for October 17, 2022.

Indoor Air Quality

Purpose To work with SDOs and other stakeholders to develop and maintain voluntary standards that address hazards associated with indoor air quality.

Staff Contact Bevington, Charles

Voluntary Standard(s)

Designation and current version	Title
ASTM D8142-17e1	<i>Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers</i>
ASTM D8141-17	<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 62.2-2019	<i>Ventilation and Acceptable Indoor Air Quality in Residential Buildings</i>

Standard(s) Update In August 2022, ASTM published the new standard ASTM D8445-22a, *Standard Practice for Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-Scale Ventilated Enclosure*.

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 standards that provide information on consumer products and their relationship to the indoor environment, leading to increased coordination with the ASTM F15 subcommittee. Staff is also working with various industry, government, and advocacy stakeholders on reviewing IAQ issues associated with gas ranges to possibly make recommendations or proposals to affected voluntary standards.

Meeting(s) Staff participated in ASTM D22.05 subcommittee meetings where ballot results for ASTM D8445-22a, ASTM D8141-17, and ASTM D5438-17 were discussed. Staff also participated in ASTM D22.05 task group meetings where approaches to measure or model substances, such as Per and Poly-Fluoroalkyl Substances (PFASs) in indoor air and consumer products, 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 gas ranges. This group is actively working on incorporating emission protocol from gas ranges and associated indoor air concentrations of carbon monoxide, nitrogen dioxide, and fine particulate matter into revisions of existing standards.

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
February 2022	ASTM WK58354	Ballot item (D22-01, Item 7) to publish as a new standard (ASTM D8445-22a). The item passed after ASTM 8442-22 was re-balloted to update one section.
March 2022	ASTM D8141	Ballot item (D22-02, Item 1) to include new references. The ballot results were not reviewed prior to the end of the reporting period.

Next Action Staff will continue to participate in ASTM and ASHRAE meetings to develop and review standards related to IAQ and consumer products. For example, staff started work on a new ASTM work item under D22.05 titled *Defining and categorizing modeling approaches to support source characterization for indoor exposure assessment of consumer products*.

Staff will continue to participate with various industry, government, and advocacy stakeholders on reviewing IAQ issues associated with gas ranges as long as revisions to voluntary standards or recommendations to voluntary standards bodies are a potential outcome.

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)	Standard Safety Specification for Liquid Laundry Packets

Standard(s) Update

On March 4, 2022, ASTM reapproved ASTM F3159-15(2022), *Standard Safety Specification for Liquid Laundry Packets*.

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 task group meetings to determine if the standard’s scope should be expanded to focus on other age groups and hazards, such as ocular and dermal injuries.

Meeting(s)

Staff attended subcommittee meetings and several task group meetings, focused on scope, data, ocular/dermal, and senior/dementia issues. Staff presented on the staff report, *Effect of Novel Coronavirus Pandemic on 2020 NEISS Estimates*, providing a list and summary count of incidents by code for the years 2019 and 2020. Members reviewed a report from Rocky Mountain Poison Control summarizing liquid laundry package exposures in children ages 6 years and younger from 2013 to 2020, focused on single and multiple routes of exposure involving ingestions, dermal, and ocular exposures.

Communication(s)

There were no communications during the reporting period.

Applicable Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2021	ASTM F3159	Ballot F15(21-09) item 3 proposed to reapprove the standard with no changes. The ballot item passed once a negative vote was found non-persuasive.

Next Action

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

LP Gas Appliances

Purpose

To work with CSA, NFPA, and other stakeholders to revise the voluntary standards to strengthen safety provisions and to ensure that the voluntary

standards address hazards associated with LP-gas appliances, such as gas grills and fire pits.

Staff Contact Kim, Yeon Seok

Voluntary Standard(s)	Designation and current version	Title
	ANSI Z21.97-2017/ CSA 2.41-2017	<i>Outdoor Decorative Gas Appliances</i>
	ANSI Z21.58b-2018 /CSA 1.6-2018	<i>Outdoor Cooking Gas Appliances</i>
	NFPA 58, 2020 Edition	<i>Liquefied Petroleum Gas Code</i>

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

Relevant Rulemaking N/A

Activities Summary During the reporting period, staff attended the technical subcommittee meeting January 2022, to review the task force reports and progress. Staff also reviewed the ballot for ANSI Z21.58.

Meeting(s) The joint TSC met to discuss open work items, this was the first TSC meeting in almost 2 years.

Staff also participated in several TSC and task force meetings to discuss requirements for smart-enabled, specialty outdoor cooking appliances.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	May 2022	ANSI Z21.58	Ballot for the next edition to the standard, including requirements clarifying spare LP gas cylinders cannot be stored within a gas grill, and provisions for smart-enabled outdoor cooking gas appliances. The ballot results had not been discussed by the end of the reporting period.

Next Action Staff will participate in upcoming CSA TSC meeting scheduled in October 2022. 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	Standard Test Method for Evaluating Wind Safety and Durability of Market Umbrellas
	ASTM WK 81182	Potential new standard for evaluating wind safety and stability of beach umbrellas

Standard(s) Update In October 2021, ASTM published F3512-21, *Standard Test Method for Evaluating Wind Safety and Durability of Market Umbrellas*. This new voluntary standard established test methods for evaluating MUs for wind strength and durability.

Relevant Rulemaking N/A

Activities Summary Staff continues to work with the MU Subcommittee and BU Task Group on developing new standards. During the reporting period, staff provided comments on draft documents, actively participated in task group meetings on establishing scope and test requirements, gathered data on wind forces and related information, and provided feedback on the agency's position for maintaining or improving safety for these products.

Meeting(s) Staff participated in an ASTM F15.79 subcommittee meeting in November 2021, where the subcommittee established a task group to develop a new standard for BUs. Staff has since been meeting with the BU task group approximately once per month, working actively with the subcommittee to develop testing requirements.

Communication(s)	Date	Type	Summary
	11/10/2021	Email	Staff provided the ASTM F15.79 subcommittee information on accessing publicly available incident data on umbrellas

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	October 2021	N/A	Subcommittee ballot F15.79 (21-01), item 1 to include beach umbrellas requirements in any new standards.

Next Action Staff will host a task group meeting at the CPSC Laboratory in October 2022.

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 listed here 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. Staff continued working with SEA Limited to support contract work on riding mower rollovers, and working to support contract work on riding mower runover and backover hazards.

Meeting(s) Staff met with the OPEI to discuss how CPSC and OPEI can collaborate on the review of riding lawn mower incident data and on riding mower rollover and runover/backover research.

Communication(s)	Date	Type	Summary
	6/30/2022	Data	Staff provided the OPEI with incident data for mower runover and rollover incidents for the period 1/1/2015 through 5/1/2022.

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

Next Action Staff will meet with the OPEI B71.1 committee in October 2022. Staff expects a ballot to be issued before the end of 2022.

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 listed here were not updated during the reporting period.

Relevant Rulemaking NPR published on November 21, 2016 (81 FR 83556)

Activities Summary In February 2022, staff published a briefing package on staff's assessment of the effectiveness of the CO hazard mitigation requirements in UL 2201 and PGMA G300-2018 and information on the availability of compliant products. Additionally, staff provided an IDI to PGMA for an incident caused by a portable generator that was certified to PGMA G300-2018.

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

Communication(s)	Date	Type	Summary
	4/22/2022	Data	Staff provided PGMA with an IDI for a CO poisoning incident related to a portable generator certified to the PGMA G300-2018 standard.

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

Next Action Staff will participate in any upcoming meetings and share data, as needed. Staff will also work on a rulemaking 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 listed here was not updated during the reporting period.

Relevant Rulemaking N/A

Activities Summary Staff worked actively to identify the correct committee, schedule a meeting, and engage stakeholders to begin addressing hazards raised by staff related to pressure cookers.

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

Communication(s)

Date	Type	Summary
7/6/2022	Correspondence	Staff provided draft language to UL for formation of a new task group for pressure cookers.

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

Next Action At the end of the reporting period, ULSE and staff determined that the appropriate STP to address the issues raised is UL 1026. Staff anticipates moving the effort to this group in FY 2023.

Smoke Alarms

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

Staff Contact Lee, Arthur

Voluntary Standard(s)	Designation and current version	Title
	UL 217, 9th Edition	<i>Standard for Single and Multiple Station Smoke Alarms</i>

NFPA 72, 2022 Edition	<i>National Fire Alarm and Signaling Code</i> ®
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Standard(s) Update The voluntary standards listed here were not updated during the reporting period.

Relevant Rulemaking N/A

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

Meeting(s) Staff participated in NFPA 72 First Draft meetings on issues of testing and installation of smoke alarms.

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

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

Next Action Staff plans to attend the UL STP 217 meeting in the fall/winter 2022. Staff plans to attend the second draft NFPA 72 meeting on public comments for the 2025 edition. Staff plans to complete the Smoke and CO Alarm survey in 2023 and release a report 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 listed here was not updated during the reporting period.

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

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

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

Communication(s)

Date	Type	Summary
9/30/2022	Letter	Staff noted that blade-contact injuries have not declined with the most recent blade guard requirements and asked UL to review the incident data.

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

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

Torch Fuel and Lamp Oil

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

Staff Contact White, Sharon

Voluntary Standard(s)

Designation and current version	Title
ASTM F3304-22	<i>Standard Specification for Lamp Fuel and Torch Fuel Packaging</i>

Standard(s) Update In August 2022, ASTM published a revision of ASTM F3304-22, *Standard Specification for Lamp Fuel and Torch Fuel Packaging*. The revision included an appendix to address the color and odor of torch and lamp fuel.

Relevant Rulemaking N/A

Activities Summary

During the reporting period, staff participated in task group meetings to address the hazards associated with the color and odor of torch and lamp fuel. There was consensus among the task group that the Packaging standard that was published in September 2021 contained specific requirements that already address the color and odor of torch and lamp fuel and that the better approach would be to add an Appendix to the Packaging standard that shows how the Packaging standard addresses this issue rather than develop a separate standard.

Meeting(s)

Staff met with the ASTM F15.72 task group to develop a potentially new voluntary standard to address the hazards associated with the color and odor of lamp and torch fuel twice during the reporting period.

Communication(s)

There were no communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
June 2022	ASTM F3304	Ballot F15(22-06), item 9 proposed to add sections on packaging to the appendix and update a reference on the Age Determination Guidelines. The item passed.

Next Action

Staff will participate in the next scheduled meeting, which has been scheduled for December 6, 2022.

Upholstered Furniture

Purpose

To work with ASTM, NFPA, and other stakeholders to support voluntary standards to strengthen safety provisions addressing hazards associated with fires involving upholstered furniture.

Staff Contact

Maling, Emily

Voluntary Standard(s)

Designation and current version	Title
ASTM E1353-21	<i>Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture</i>
NFPA 260, 2019 Edition	<i>Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture</i>

Standard(s) Update

The voluntary standards listed here were not updated during the reporting period.

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

Activities Summary Staff continues to work with ASTM and NFPA. During the reporting period, staff advised the committees on the details of the new federal standard and provided feedback on other test for upholstered furniture flammability that are being developed and revised.

Meeting(s) Staff attended an ASTM E05.15 subcommittee meeting. The subcommittee met to discuss several flammability standards, including one for upholstered furniture. Staff updated the subcommittee on recent CPSC rulemaking.

Staff attended a NFPA fire test committee second draft meeting, where staff updated the committee on activity implementing 16 CFR part 1640.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	NFPA 260	Closing of the public comment period for the 2023 edition. The second draft is scheduled to be posted in October 2022.

Next Action Staff will participate in upcoming ASTM and NFPA meetings. Staff will provide feedback on proposed new and revised standards, as appropriate.

Washing Machines

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

Staff Contact Kim, Yeon Seok

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

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

Relevant Rulemaking N/A

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

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

Communication(s)

Date	Type	Summary
6/6/2022	Data	Staff provided top-load washing machine incident data for the period July 2017 through February 2022.

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

Next Action Staff plans to attend any upcoming meetings, as 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 A100.1-2018	Standard for Safety of Corded Window Covering Products

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

Relevant Rulemaking The NPR for the *Safety Standard for Operating Cords on Custom Window Coverings* was published in the *Federal Register* (87 FR 1014) on January 7, 2022. On the same day, the Commission published the NPR, *Substantial Product Hazard List: Window Covering Cords* (87 FR 891).

Activities Summary Staff continues to work with WCMA on window covering safety issues. During the reporting period, staff participated in steering committee meetings, and staff reviewed and commented on draft revisions to the standard. Additionally, staff prepared a draft final rule briefing package for Commission consideration. Staff submitted the briefing package to the Commission on 9/28/2022.

Meeting(s) Staff participated in a conference call with WCMA to discuss the process on reopening the standard and three WCMA steering committee meetings, where they briefed the group on the staff's recommendations, participated in discussions on potential custom window product requirements, presented incident data, and commented on proposed revisions to the standard.

Communication(s)

Date	Type	Summary
3/1/2022	Letter	Staff provided a formal response to WCMA on their opposition to continuous cord loop systems and raised issues with single retractable cord lift systems.
8/15/2022	Letter	Staff outlined reasons for a negative vote on ANSI/WCMA A100 standard.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
8/15/2022	ANSI/WCMA A100	Staff and several others cast negative votes
10/21/2022	ANSI/WCMA A100	Recirculation ballot was issued on 9/23/2022. Staff's original vote stood.

Next Action Staff will participate in upcoming committee meetings as they are scheduled and will review and comment on any ballots issued by WCMA.

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 F747-21a	Standard Terminology Relating to Amusement Rides and Devices
ASTM F770-22	Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices

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

**Standard(s)
Update**

In October 2021, ASTM published ASTM F747-21a, *Standard Terminology Relating to Amusement Rides and Devices*. This revision updated references and consolidated the definitions of *owner/operator* from other F24 committee standards.

In October 2021, ASTM published F770-21a, *Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices*. This revision updated terminology and clarified the scope.

In June 2022, ASTM published F770-22, *Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices*. This revision updated the definition of *owner/operator*.

In June 2022, ASTM published F1193-22, *Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices*. This revision updated requirements for non-conforming components and added requirements for manufacturers to maintain a catalog of supplemental bulletins. Additionally, some welding requirements, including a welding process inspection requirement, were moved from F2291 to this standard.

In June 2022, ASTM published F2970-22, *Standard Practice for Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts*. This revision removed the definition of *owner/operator*.

In June 2022, ASTM published F2974-22, *Standard Practice for Auditing Amusement Rides and Devices*. This revision updated the reference to the terminology standard, F747.

In June 2022, ASTM published F2291-22, *Standard Practice for Design of Amusement Rides and Devices*. This revision updated references,

terminology, restraint requirements, loads and strength requirements, and documentation requirements. Additionally, some welding requirements, including a welding process inspection requirement, were moved from this standard to F1193. This revision also updated guidance on metal fatigue and restraint design and added guidance on corrosion and wind load factors.

In July 2022, ASTM published F2291-22a, *Standard Practice for Design of Amusement Rides and Devices*. This revision added a requirement for head-worn accessories (such as helmets or head mounted displays) to be considered in the ride analysis for their potential effects on the rider’s head inertia.

Relevant Rulemaking

N/A

Activities Summary

Staff continued working with ASTM F24 to improve safety standards for amusement rides, trampoline parks, and adventure attractions. During the reporting period, staff attended multiple subcommittee and task group meetings, reviewed ballot items, presented an in-depth investigation (IDI) report for an amusement park ride, restraint-related incident, and provided portable amusement ride and attraction incident data.

Meeting(s)

Staff attended multiple subcommittee and task group meetings for amusement park rides and devices. Subcommittees included those for design, maintenance and inspection, and adventure attractions. Task groups included risk assessment, restraints, ride modification, air-inflated devices, and trampoline courts. Staff presented an IDI for a restraint-related incident.

Communication(s)

Date	Type	Summary
8/31/2022	Data	Staff provided portable amusement ride and attraction incident data for the period January 2011 through December 2020.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2021	ASTM F1193	Ballot F24(21-06) item 2 proposed changed language to highlight a manufacturer’s responsibilities. The item was removed from the ballot.
October 2021	ASTM F1193	Ballot F24(21-06) item 3 proposed changed language to harmonize terms between

		standards. The item was removed from the ballot.
October 2021	ASTM F1193	Ballot F24(21-06) item 4 proposed changed the guide to a standard. The item passed.
October 2021	ASTM F1193	Ballot F24(21-06) item 5 proposed changed language to harmonize terms between standards. The item was removed from the ballot.
October 2021	ASTM F1193	Ballot F24(21-06) item 6 proposed changed language to harmonize terms between standards. The item was removed from the ballot.
October 2021	ASTM F1193	Ballot F24(21-06) item 8 proposed changed language to highlight a manufacturer's responsibilities. The item was removed from the ballot.
February 2022	ASTM 747	Ballot F24(21-07) item 3 proposed revising the scope. The item was removed from the ballot.
February 2022	ASTM 747	Ballot F24(21-07) item 4 proposed adding a Significance and Use section. The item was removed from the ballot.
February 2022	ASTM F1193	Ballot F24(21-07) item 5 proposed changed language to highlight a manufacturer's responsibilities. The item passed.
February 2022	ASTM F1193	Ballot F24(21-07) item 6 proposed changed language to highlight how to handle non-conforming components. The item passed.
February 2022	ASTM F1193	Ballot F24(21-07) item 7 proposed changed language to harmonize terms between standards. The item was removed from the ballot.
February 2022	ASTM F1193	Ballot F24(21-07) item 8 proposed changed language to harmonize terms between standards. The item was removed from the ballot.
February 2022	ASTM F2291	Ballot F24(21-07) item 9 aligns and adds content from other parts of the standard. The item was removed from the ballot.
February 2022	ASTM F2291	Ballot F24(21-07) item 10 proposed adding a ride class to a requirement that had inadvertently been left out. The item passed.

February 2022	ASTM F2291	Ballot F24(21-07) item 11 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 12 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 13 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 14 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 15 proposed changes to the electrical requirements. The item received no negatives but remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 16 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 17 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 18 proposed changes to the electrical requirements. The item received no negatives but remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 19 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 20 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 21 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 22 proposed changes to the electrical requirements. The item remains unresolved.
February 2022	ASTM F2291	Ballot F24(21-07) item 23 proposed editorial improvements to text. The item passed.
February 2022	ASTM F2291	Ballot F24(21-07) item 24 proposed changes to highlight responsibilities of designer/engineer. The item remains unresolved.

February 2022	ASTM F2974	Ballot F24(21-07) item 25 proposed changed language to harmonize terms between standards. The item passed.
February 2022	ASTM F770	Ballot F24(21-07) item 26 proposed changed language to highlight a manufacturer's responsibilities. The item was removed from the ballot.
February 2022	ASTM F770	Ballot F24(21-07) item 27 proposed definition changes. The item passed.
February 2022	ASTM F2291	Ballot F24(21-07) item 38 proposed addressing head-worn accessories. The item passed.
April 2022	ASTM F1193	Ballot F24 (22-02) item 3 proposed added procedures for manufacturer subcontractors and suppliers. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 5 proposed removal of non-mandatory language. Item was removed from ballot
April 2022	ASTM F2291	Ballot F24 (22-02) item 6 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 7 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 8 proposed removal of non-mandatory language. Item was removed from ballot
April 2022	ASTM F2291	Ballot F24 (22-02) item 9 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 10 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 11 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 12 proposed updated loads and strengths references. Item was approved.
April 2022	ASTM F2291	Ballot F24 (22-02) item 13 proposed updated references. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 14 proposed updated wind load factors.

		Item was approved.
April 2022	ASTM F2291	Ballot F24 (22-02) item 15 was a duplicate of item 12. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 16 proposed moving wind load information to an appendix. Item was unresolved.
April 2022	ASTM F2291	Ballot F24 (22-02) item 17 proposed explanatory text for wind loads. Item was approved.
April 2022	ASTM F2291	Ballot F24 (22-02) item 18 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 19 proposed removal of unused definitions from the terminology. Item was approved.
April 2022	ASTM F2291	Ballot F24 (22-02) item 20 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 21 proposed removal of non-mandatory language. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 22 proposed an updated scope for the documentation requirements. Item was removed from ballot.
April 2022	ASTM F2291	Ballot F24 (22-02) item 23 proposed additional guidance for measuring short duration accelerations. Item was unresolved.
June 2022	ASTM F747	Ballot F24 (22-03) item 2 proposed removal of terms not used in any F24 standard. Item remains unresolved.
June 2022	ASTM F2291	Ballot F24 (22-03) item 3 proposed updating the scope of items the standard does not apply to. Item was removed from ballot.
June 2022	ASTM F2291	Ballot F24 (22-03) item 4 proposed updated documentation requirements. Item was removed from ballot.
June 2022	ASTM F2291	Ballot F24 (22-03) item 5 proposed clarifications for requirements associated with portable ride transportation. Item remains unresolved.

June 2022	ASTM F770	Ballot F24 (22-03) item 6 proposed clarifications for requirements associated with portable rides. Item was removed from ballot.
June 2022	ASTM F2291	Ballot F24 (22-03) item 7 proposed updated gap requirements on elevated walkways. Item was removed from ballot.
June 2022	ASTM F2291	Ballot F24 (22-03) item 8 proposed new information for gap requirements on elevated walkways. Item was removed from ballot
August 2022	ASTM F747	Ballot F24 (22-04) item 1 proposed an updated scope. Item remains unresolved.
August 2022	ASTM F747	Ballot F24 (22-04) item 2 proposed adding a significance and use section. Item remains unresolved.
August 2022	ASTM F747	Ballot F24 (22-04) item 3 proposed adding an informational flow chart. Item remains unresolved.
August 2022	ASTM F2291	Ballot F24 (22-04) item 4 proposed revising the documentation scope. Item remains unresolved.
August 2022	ASTM F2291	Ballot F24 (22-04) item 5 proposed updating documentation requirements. Item was removed from ballot.
August 2022	ASTM F2291	Ballot F24 (22-04) item 6 proposed adding a definition for portable amusement ride. Item was removed from ballot.
August 2022	ASTM F2291	Ballot F24 (22-04) item 7 proposed clarifications to restraint position and restraint position monitoring device requirements. Item was removed from ballot.
August 2022	ASTM F2291	Ballot F24 (22-04) item 8 proposed added consistent unit conversions. Item was removed from ballot.
August 2022	ASTM F770	Ballot F24 (22-04) item 9 proposed requirements for a modification program. Item was removed from ballot.
August 2022	ASTM F770	Ballot F24 (22-04) item 10 proposed information related to a modification evaluation process. Item was removed from ballot.

August 2022	ASTM F770	Ballot F24 (22-04) item 11 proposed added references to the modification program. Item was removed from ballot.
August 2022	ASTM F770	Ballot F24 (22-04) item 12 proposed added evacuation plan requirements. Item was removed from ballot.
August 2022	ASTM F72291	Ballot F24 (22-04) item 25 proposed added language addressing interface design. Item remains unresolved.
August 2022	ASTM F2291	Ballot F24 (22-04) item 26 proposed added scope for operator interfaces section. Item remains unresolved.
August 2022	ASTM F2291	Ballot F24 (22-04) item 27 proposed revised technical requirements for operator interfaces. Item remains unresolved.
August 2022	ASTM F2291	Ballot F24 (22-04) item 28 proposed added operator interface requirements. Item remains unresolved.
August 2022	ASTM F2291	Ballot F24 (22-04) item 29 was balloted in error. Item was removed from ballot.
August 2022	ASTM F2291	Ballot F24 (22-04) item 30 proposed revised rider eligibility analysis requirements. Item remains unresolved.
October 2022	ASTM F2291	Ballot F24 (22-05) item 1 proposed clarifications to acceleration analysis requirements. Item closed after reporting period.
October 2022	ASTM F770	Ballot F24 (22-05) item 5 proposed requirements for portable amusement rides. Item closed after reporting period.
October 2022	ASTM F2291	Ballot F24 (22-05) item 6 proposed a definition for portable amusement ride or device. Item closed after reporting period.
October 2022	ASTM F2291	Ballot F24 (22-05) item 7 proposed renaming the definitions section. Item closed after reporting period.
October 2022	ASTM F2970	Ballot F24 (22-05) item 8 proposed revisions to the trampoline court standard. Item closed after reporting period.

October 2022	ASTM F2291	Ballot F24 (22-06) items 1 through 10 proposed removal of non-mandatory language. Items closed after reporting period.
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Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM F24 committee meeting in October.

ATVs (All-Terrain Vehicles)

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

Staff Contact Lim, Han

Voluntary Standard(s)	Designation and current version	Title
	ANSI/SVIA 1-2017	<i>American National Standard for Four Wheel All-Terrain Vehicles (ATVs)</i>

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

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

Activities Summary Staff continues to work with SVIA to develop possible performance standard requirements to address fire hazards. During the reporting period, staff met with manufacturers to discuss ATV hazards and notified SVIA of a contractor report.

Meeting(s) Staff met with SVIA representing ATV manufacturers to discuss fire hazards on November 9, 2021, April 1, 2022, June 7, 2022, and Sept 7, 2022. A virtual meeting was held on Sept 1, 2022, to discuss proposed requirements to address OHV fire hazards.

Communication(s)	Date	Type	Summary
	March 15, 2022	Email	Staff notified SVIA of a CPSC-sponsored contractor report that was made publicly available.

Ballot(s) A canvass ballot started on September 8, 2022; however, the closing date was after the reporting period. The ballot was for numerous proposed standard requirements for the ANSI/SVIA-1-202x standard to address fire hazards associated with ATVs.

Next Action Staff will continue to work with SVIA and review the open ballot.

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	<i>Standard Specification for Bicycle Grips</i>

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

Relevant Rulemaking 16 CFR part 1512 *Requirement for Bicycles*

Activities Summary Staff continues to work with the subcommittee on issues related to bicycles. During the reporting period, staff provided input on an incident regarding an exposed handlebar. Staff provided their feedback on the proposed new test method for handlebar grip resistance to abrasion and on the agency's position for maintaining or improving safety for these products. Staff recommended balloting the end cap requirement and the improvement to the test method.

Meeting(s) Staff attended the ASTM F08.96 ISO TAG meeting to monitor ISO and CEN standards related to bicycles. Additionally, staff attended the ASTM F08.10 Bicycles subcommittee meetings, where the handlebar task group presented a proposed new test method for handlebar grip resistance to abrasion. Staff will participate in the development of the new test method.

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

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

Next Action Staff will participate in upcoming subcommittee meetings in November 2022.

Fireworks

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

Staff Contact Valliere, Rodney

Voluntary Standard(s)

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

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

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

Activities Summary Staff continued to work with APA and AFSL on fireworks issues. During the reporting period, staff provided a summary of CPSC fireworks regulations to be used as a guide to importers.

Meeting(s) Staff participated in two APA meetings, where staff discussed potential revisions to APA 87-1A.

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

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

Next Action Staff will participate in upcoming APA and AFSL standards committee meetings, including the APA annual meeting Winter Educational Conference scheduled in February 2023.

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 listed here was not updated during the reporting period.

Relevant Rulemaking

The Commission published an NPR, *Safety Standard for Magnets*, on January 10, 2022 (87 FR 1260). The Commission published a final rule, *Safety Standard for Magnets*, on September 21, 2022 (87 FR 57756).

Activities Summary

Staff continued to work with ASTM F15.77 to improve the safety of magnet sets while also working towards a final rule for magnets. Much of this work was asynchronous, although ASTM's online collaboration area centered on drafting ballot items pertaining to performance requirements and marketing and educational requirements.

Meeting(s)

Staff participated in two subcommittee meetings, where they briefed the group on the scope and process of the NPR and the final rule. The group discussed potential changes to the standard, and the majority voted to establish a new work item to revise the standard by balloting performance and marketing/educational requirements.

Communication(s)

There were no communications during the reporting period.

Ballot(s)

There were no ballots during the reporting period.

Next Action

Staff will work with the subcommittee on drafting the abovementioned ballot items. These items will be balloted for the full F15 committee.

Playground Equipment, Home

Purpose

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

Staff Contact

Lee, Kevin

Voluntary Standard(s)

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

Standard(s) Update The voluntary standard listed here was updated on March 8, 2022. The revision added chromated carbon arsenate (CCA) to the list of materials that shall not be used for playground equipment.

Relevant Rulemaking N/A

Activities Summary Staff continues to work with ASTM to improve public playground safety by working with the home playground task groups to address slide strangulations and third-party playground accessories. During the reporting period, staff advocated for the standard to prohibit CCA wood. Staff also participated in two task groups addressing do-it-yourself swing hangers and slide strangulation.

Meeting(s) Staff participated in the ASTM F15.09 subcommittee meeting in November to discuss potential changes to the standard.

Staff participated in two different task group meetings, one for do-it-yourself swing hanger failures and the other for slide strangulation.

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

Applicable Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
February 2022	ASTM F1148	ASTM published ballot F15 22-01, item 1, revision of F1148-2022 <i>Consumer Safety Performance Specification for Home Playground Equipment</i> . The ballot added CCA to the list of materials not to use. This item passed.

Next Action Staff will participate in the upcoming subcommittee meeting in November 2022.

Playground Equipment, Public

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

Staff Contact Lee, Kevin

Voluntary Standard(s)

Designation and current version	Title
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ASTM F15.29 F1487-21	<i>Standard Consumer Safety Performance Specification for Public Playground Equipment</i>
ASTM F14.10 F2049-2011(2017)	<i>Safety Performance Specification for Fences/Barriers for Public, Commercial, and Multi-Family Residential Use Outdoor Play Areas</i>

Standard(s) Update The voluntary standards listed here 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 consider ASTM's letter of suggested modifications and attended a subcommittee meeting on playground fencing.

Meeting(s) Staff participated in ASTM F14.10 Fencing Subcommittee meetings, where the committee considered changing ASTM F2049 from a specification to a guide but did not end up making the change. Staff had expressed concerns about changing the standard from a specification to a guide.

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

Date closed	Voluntary Standard	Summary and Results (If Applicable)
January 2022	ASTM F2049	ASTM published ballot F14 21-02, item 1, reapproval of F2049-2011(2017) <i>Safety Performance Specification for Fences/Barriers for Public, Commercial, and Multi-Family Residential Use Outdoor Play Areas</i> . The ballot proposed to make the specification a guide. This item was removed from the ballot due to negative votes. CPSC staff submitted an abstention with comment to support the reapproval of the F2049 standard and not to convert the standard into a guidance document.
April 2022	F1487	ASTM published ballot F15.29 (22-01), item 1, revision of F1487-2021 <i>Consumer Safety Performance Specification for Playground Equipment for Public Use</i> . This ballot proposed definitions and performance

		requirements for fully enclosed play structures. The ballot received several unresolved negative votes, which are still being addressed.
August 2022	F2049	ASTM published ballot F 14 (22-03) item 3, Reapproval of F2049-2011 (2017) <i>Safety Performance Specification for Fences/Barriers for Public, Commercial, and Multi-Family Residential Use Outdoor Play Areas</i> . The ballot proposed the reapproval of the existing standard. CPSC staff submitted an abstention with comment to support the reapproval of the standard and not to convert the standard into a guidance document. The ballot remains unresolved.
August 2022	N/A	ASTM published ballot F08.66 (22-01) item 2, <i>New Standard Guide for the Specification, Selection, Design, and Maintenance of Fencing for Outdoor Recreational Activities Areas, Playspaces and Playing Fields used in a Publicly Accessible Site</i> . The ballot proposed a new F08 guide to determine when a playground fence would be recommended. The ballot remains unresolved.

Next Action Staff will participate in upcoming subcommittee meetings at the ASTM playground meetings in November 2022.

Playground Surfacing

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

Staff Contact Lee, Kevin

Voluntary Standard(s)

Designation and current version	Title
ASTM F1292-18e1	<i>Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment</i>
ASTM F1951-21	<i>Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment</i>

ASTM 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 February 2022, ASTM F3012, *Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface Under and Around Playground Equipment*, was revised to expand the testing for metals in playground surfacing to include non-ferrous metals and increase the total exposed metal content from none to 0.1% measured by weight.

Relevant Rulemaking

N/A

Activities Summary

Staff continues to work on updating the CPSC Public Playground handbook, which references the listed voluntary standards. Staff will consider ASTM's letter of suggested modifications.

Meeting(s)

Staff participated in an ASTM F08.63 playground surfacing subcommittee meeting and updated the group on the status of the CPSC Public Playground handbook revision, estimated to be completed in 2023.

Communication(s)

There were no communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2021	ASTM F3012	ASTM published ballot F08 (21-05) item 25 <i>Revision of F3012-2022 Specification for Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment</i> . The ballot proposed modifying the total exposed metal content in loose-fill from 0% to <= 0.1% as measured by weight and also expand the testing to include non-ferrous metals. The ballot passed.

There were no ballots during the reporting period.

Next Action Staff plans to attend the next ASTM playground surfacing subcommittee meeting in November 2022.

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/APSP/ICC-4- (R2022)	<i>American National Standard for Above-Ground/On-Ground Residential Pools</i>
	ANSI/APSP/ICC-5 (R2022)	<i>PHTA-5 Residential Inground Swimming Pools</i>
	ANSI/APSP/ICC-8 ISPC - 2021 -	<i>American National Standard Model Barrier Code for Residential Swimming Pools, Spas, and Hot Tubs</i>
	ASTM WK76767	Potential new standard for computerized vision for drowning detection in residential swimming pools

Standard(s) Update The ANSI/PHTA/ICC-4 and -5 residential pool standards were reapproved in 2022.

Relevant Rulemaking N/A

Activities Summary Reapproval of the ANSI/PHTA/ICC- 4 Residential Above-Ground/On-Ground Residential and ANSI/PHTA/ICC-5 Residential In-Ground Swimming Pools occurred in 2022, to avoid the standards becoming inactive. Concurrently, both standards were being updated and will be republished in 2023. During the reporting period, staff participated in task group meetings for a new work item on drowning detection. The ANSI/ICC/PHTA standard activities have updated barrier safety requirements to prevent the drowning of young children.

Meeting(s) Staff reviewed proposed changes as part of the Standard Writing Committee (SWC) for the ANSI/PHTA/ICC- 4 Residential Above-Ground/On-Ground Residential and ANSI/PHTA/ICC-5 Residential In-

Ground Swimming Pools. Some of these proposals included more language in barrier safety entrapment hazards, reapproval of the standard, and ladder accessibility and fall hazards. Staff also participated in the task group for ASTM WK76767, a potential new standard for computerized vision for drowning detection in residential swimming pools.

<i>Communication(s)</i>	Date	Type	Summary
	8/30/2022	Data	Staff provided pool ladder incident data to the committee.

<i>Ballot(s)</i>	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	June 2022	ANSI/PHTA/ICC-4	The ballot proposed renewal with no changes. The ballot passed.
	June 2022	ANSI/PHTA/ICC-5	The ballot proposed renewal with no changes. The ballot passed.

Next Action Staff will participate in upcoming meetings.

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- 2016	<i>American National Standard for Recreational Off-Highway Vehicles</i>
	ANSI/OPEI B71.9-2016	<i>American National Standard for Multipurpose Off-Highway Utility Vehicles</i>

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

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

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

The Commission published a notice of proposed rulemaking (NPR) Off-Highway Vehicle (OHV) Debris Penetration Hazards (87 FR 43688), July 21, 2022.

Activities Summary

Staff continues to work with OPEI and ROHVA to develop possible performance standard requirements to address fire and debris penetration hazards in ROVs. During the reporting period, staff met with OPEI and ROHVA members to discuss possible performance standard requirements to address fire hazards, based on other related standards.

Meeting(s)

Staff met with OPEI, SVIA, and ROHVA on November 9, 2021, April 1, 2022, June 7, 2022, and September 7, 2022, to discuss possible standard performance requirements for OHV fire hazards and debris penetration hazards. A virtual meeting was held on September 1, 2022, to discuss proposed requirements to address OHV fire hazards. Additionally, at the meeting on April 1, 2022, OPEI and ROHVA members examined the debris penetration test setup at CPSC contractor SEA’s facility in Columbus, OH. OPEI and ROHVA committee members presented a drop test method as an alternative to the NPR test procedure to evaluate the debris penetration hazard associated with ROVs and utility task/terrain vehicles (UTVs).

Communication(s)

Date	Type	Summary
December 22, 2021	Email	Staff notified OPEI and ROHVA representatives regarding the publication of the December 2021 CPSC contractor report on Debris Penetration Testing
August 9, 2022	Voluntary Standards Letter	Staff confirmed receipt of OPEI and ROHVA’s drop test proposal and requested a technical meeting to discuss the proposed drop test method.
September 7, 2022	Voluntary Standards Letter	This letter was in response to a canvass ballot for proposed changes to the ANSI/OPEI B71.9-202x standard that contained numerous requirements to address fire and debris penetration hazards. Staff abstained with comments in the Voluntary Standards Letter. Staff disagreed with OPEI and ROHVA’s proposed drop test method. Staff also provided detailed comments on the proposed fire hazard requirements in the letter.

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.
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Next Action Staff is tasked with preparing a final rule for ROV/UTV Debris Penetration Hazards and an NPR for Fire Hazards.

Self-Balancing Scooters and Light Electric Vehicles

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

Staff Contact Mella, Lawrence

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

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

Relevant Rulemaking N/A

Activities Summary Staff continues to work with ASTM and ULSE on existing and new safety standards for micromobility products, such as hoverboards, e-bikes, and self-balancing scooters. During the reporting period, staff participated in multiple meetings and provided the annual micromobility data report to the ASTM F15.58 subcommittee.

Meeting(s) Staff participated in multiple subcommittee and task group meetings for ASTM WK70724 on brakes, tires/operable terrain/suspension, 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 ebikes.

<i>Communication(s)</i>	Date	Type	Summary
	11/22/2021	Data Report	Staff sent the ASTM F 15.58 the CPSC report <i>Micromobility Products-Related Deaths, Injuries, and Hazard Patterns: 2017–2020</i> .

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 2022.

Sports/Recreational Headgear Sensors/Helmet and Sensors

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

Staff Contact Dayal, Vineed

Voluntary Standard(s)	Designation and current version	Title
	ASTM F 1446-20	<i>Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear</i>
	ASTM F 1447-18	<i>Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating</i>
	ASTM F 2220-15	<i>Standard Specification for Headforms</i>

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

Relevant Rulemaking N/A

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

Meeting(s) Staff attended subcommittee meetings to monitor the standards.

<i>Communication(s)</i>	Date	Type	Summary
	8/17/2022	Letter	Staff requested more information on potential revisions to sports helmet standards and

		raised the issue of better addressing nonfatal hazards.
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Ballot(s) There were no ballots during the reporting period.

Next Action Staff plans to attend the next subcommittee meeting in November.

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	American National Standard for Above-Ground/On-Ground Residential Pools

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

Relevant Rulemaking 16 CFR part 1450, *Virginia Graeme Baker Pool and Spa Safety Act*

Activities Summary Staff continues to work with PHTA to improve pool and spa safety. On September 21, 2021, staff wrote to PHTA to recommend additional work take place on a provisional amendment to ANSI/APSP/ICC 16-2017. During the reporting period, staff worked with PHTA to review the requirements.

Meeting(s) Staff participated in a meeting with PHTA to review the letter of September 21, 2021, where staff suggested that the provisional amendment to ANSI/APSP/ICC 16-2017 have requirements for the safe spacing of dual drain outlets, specific to the integrated suction outlet fitting assemblies (SOFAs) in storable pools. PHTA agreed to add a reference from PHTA-4, regarding requirements for dual drain separation.

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

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

Next Action Staff will participate in upcoming PHTA meetings.

Swimming Pools/Spas, Vacuum Relief System

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

Staff Contact Eilbert, Mark

Voluntary Standard(s)

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

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

Relevant Rulemaking N/A

Activities Summary Staff wrote a letter to the PHTA-17 committee to encourage progress on the standard and to recommend that the committee look at variable speed pumps.

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

Communication(s)

Date	Type	Summary
8/18/2022	Letter	Staff asked that PHTA-17 SWC continue work on the SVRS standard, specifically addressing 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 listed here 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 on the task group to study available technical data and evaluate testing options to develop a possible screening test or alternative test plan for certain product categories. Staff contributed to a test methodology for material evaluation for task group review.

Meeting(s) Staff participated in ASTM F08.22 subcommittee and task group meetings during the reporting period.

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

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

Next Action Staff will attend subcommittee and task group meetings, as scheduled, and staff will support the development of a potential characterization test, by assisting with sample selection, data review, and test methodology development.

Treadmills

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

Staff Contact Bowley, Susan

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 listed here 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 provided incident data covering a 10-year period and participated in monthly subcommittee and task group meetings. Additionally, staff sent a letter to ASTM requesting the ASTM F08.30 Treadmill Task Group to focus on performance requirements for mechanical guards to prevent entrapment and pull-in hazards at the rear of the treadmill, rather than discuss potential solutions for guard designs.

Meeting(s) Staff participated in several subcommittee and task group meetings focused on incident data review, hazard identification, testing and characterization enhancements, and other topics to address safety issues related to treadmills.

Communication(s)	Date	Type	Summary
	11/23/2021	Incident Data	Staff provided the subcommittee with treadmill incident data for the period January 2010 through September 2021.
	9/22/2022	Letter	Staff provided recommendations on guard designs to mitigate entrapment hazards.

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

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

Codes, Analytical Methods, and Labeling

Building Codes

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

Staff Contact Ayers, Scott

Voluntary Standard(s)

Designation and current version	Title
NFPA 30, 2021 Edition	Flammable and Combustible Liquid Code
NFPA 58, 2020 Edition	Liquefied Petroleum Gas Code
NFPA 70, 2020 Edition	<i>National Electrical Code</i> ®
NFPA 72, 2022 Edition	<i>National Fire Alarm Signaling Code</i> ®
NFPA 101, 2021 Edition	<i>Life Safety Code</i> ®

Standard(s) Update The voluntary standards listed here 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 met with ICC and IAPMO staff separately to learn which model codes staff may be interested in and how to participate.

Meeting(s) Staff joined the NFPA 58 committee, the *Liquefied Petroleum Gas Code*. Staff met with ICC and IAPMO staff to learn about other model codes and how to get involved. Most of the ICC and IAPMO codes are nearing the end of their revision cycles, so staff will prepare for the start of the next revision cycle. Staff participated in NFPA 30, where staff advocated for flame mitigation devices. Staff participated in two NFPA 30 correlating meetings.

Staff participated in many CMP meetings and several task groups during the reporting period.

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

Ballot(s)

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

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

Chemical Test Methods

Purpose

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

Staff Contact

Duque, Maricar

Voluntary Standard(s)

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

	by Solvent Extraction—Gas Chromatography/Mass Spectrometry
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Standard(s) Update The voluntary standards listed here were not updated during the reporting period.

Relevant Rulemaking N/A

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

Staff worked with an Expert Group (EG) with The Organization for Cooperation and Economic (OECD) to develop a new test method (HCl 0.032M) that is similar to a method used by CPSC determining cadmium extractability from children’s metal jewelry.

Meeting(s) Staff participated in two ASTM D20.70 meetings during the reporting period. Staff volunteered to participating in an Inter-Laboratory Study for ASTM D7823 and ASTM D8133.

Staff participated in the OECD EG meetings during the reporting period. This group discussed the merits and concerns with the draft Test Guidance on the determination of metal release using HCl 0.032M test method.

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

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

Next Action Staff will participate in upcoming ASTM task group meetings or subcommittee meetings, when scheduled. Staff expects to start the ASTM D20.70 ILS work on ASTM D8133 in November 2022, then share results in 2023. The next subcommittee meeting will be in November 2022.

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 code listed here was revised and updated from the 2020 Edition of the standard. The 2023 Edition was published on September 1, 2022.

Relevant Rulemaking

N/A

Activities Summary

Staff participated in the development of the next edition of the NEC, which is revised every 3 years. 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 a task group to evaluate and reach an informed technical solution to the issues raised regarding unwanted GFCI tripping on outdoor AC units, as required in the 2020 NEC Section 210.8(F).

Meeting(s)

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

Communication(s)

There were no communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2022	NFPA 70	Second Draft Correlating Committee issued the final ballot results for panel actions related to public inputs received. The ballot results correlate to the Second Draft of the 2023 edition of the NEC.

Next Action

Staff will continue to participate in the NEC future revisions and related task groups to address fire, shock, CO poisoning and other hazards.

Warning Signs and Labels (and Ad Hoc Language)

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

Staff Contact Smith, Tim

Voluntary Standard(s)	Designation and current version	Title
	ANSI Z535.7	<i>Warnings in Electronic Media</i>

Standard(s) Update The voluntary standard listed here was not updated during the reporting period. However, the ASTM F15 Ad Hoc Language task group may influence changes in multiple standards.

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.

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.

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

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

Next Action Staff will participate in the next ASTM Ad Hoc Language task group meeting, scheduled for October 2022.

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