



Memorandum

DATE: June 22, 2022

To: The Commission
Alberta E. Mills, Secretary

THROUGH: Austin C. Schlick, General Counsel
Mary T. Boyle, Executive Director

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

SUBJECT: Voluntary Standards Activities Fiscal Year 2022 Midyear Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Fiscal Year 2022 (FY 2022) Midyear Voluntary Standards Tracking Activities Report (VSTAR), covering the period October 1, 2021 through March 31, 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 Activity Report

FY 2022 MIDYEAR REPORT

(October 1, 2021–March 31, 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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U.S. CPSC Staff Voluntary Standards Activities:

Reporting Period October 1, 2021–March 31, 2022

Introduction

Voluntary standards play an important role at the U.S. Consumer Product Safety Commission (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, if the voluntary standard is not likely to adequately reduce 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 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) Midyear Report.

Voluntary standards activities are managed by various standards developing organizations (SDOs), most of these organizations accredited by the American National Standards Institute¹ (ANSI). While most of the voluntary standards discussed in this report are developed by ASTM, International (ASTM) and Underwriters Laboratories Inc. (UL)², staff works with several other SDOs that support consumer product 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 that staff contributed to and that were initially published or revised during the reporting period. Additionally, this report identifies

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.

²UL, an ANSI accredited SDO, is distinct from UL, LLC a product testing and certification laboratory that was formerly part of UL.

staff 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 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 provide safety provisions addressing 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 products, product areas, or hazards outlined in this report.

The entries are organized into similar activities with the following groupings:

- 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.e.*, 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 *italics*, 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's 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 11 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 March 31, 2022. Details regarding the revisions can be found in the applicable product sections of this report. The designations and titles of these 11 voluntary standards are shown in bold font in the applicable activity section.

Table 1: New or Revised Voluntary Standards Published**October 1, 2021 - March 31, 2022**

Title	SDO	Standard Designation	Published	DR	New, Revision, Renewal
Standard Consumer Safety Specification for Crib Mattresses	ASTM	F2933	Oct-21	Nesteruk	Revision
Standard Test Method for Evaluating Wind Safety and Durability of Market Umbrellas	ASTM	F3512	Oct-21	Newens	New
Standard Specification for Flame Mitigation Devices on Portable Fuel Containers	ASTM	F3326	Oct-21	Ayers	New
Standard Guide for Ensuring the Safety of Connected Consumer Products	ASTM	F3463	Oct-21	Lee, S	Revision
Standard Consumer Safety Specification for Baby Changing Products for Domestic Use	ASTM	F2388	Jan-22	Mella, L	Revision
Standard Consumer Safety Specification for High Chairs	ASTM	F404	Jan-22	Marques, S	Revision
Standard Specification for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use	ASTM	F852	Jan-22	Ayers, S	Revision
Standard Consumer Safety Specification for Sealed Storage Chests such as Cedar Chests, Hope Chests, Blanket Chests, Keepsake Chests	ASTM	F2598	Feb-22	Verdino, P	Revision
Standard Safety Specification for Liquid Laundry Packets	ASTM	F3159	Mar-22	Hurley, J	Renewal
Standard Consumer Safety Performance Specification for Home Playground Equipment	ASTM	F1148	Mar-22	Lee, K	Revision
Standard Consumer Safety Specification for Infant Bath Tubs	ASTM	F2670	Mar-22	Foster, Z	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. In the first half of FY 2022, the Office of the Executive Director (OEX) approved one new staff leadership role and renewed three staff voting requests and one new voting request. There are seven additional voting or leadership activities that have carried over from FY 2021. 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.	Dec-21	New	Leadership	UL 2904, 3D Printer Emissions
Kish, C.	Jan-22	Renewal	Voting	ASTM F15.18 Infant Inclined Sleep Products
Kish, C.	Jan-22	Renewal	Voting	ASTM F15.18, Bassinets/Cradles
Kish, C.	Jan-22	New	Voting	ASTM F15.18, Non-Full-Size Baby Cribs and Play Yards
Harsanyi, S.	Jan-22	Renewal	Voting	ASTM F15.77, Adult Magnets
Ayers, S.	Apr-21	Renewal	Voting	ASTM F15.72, Flame Mitigation Devices on Disposable Fuel Containers*
Ayers, S.	Apr-21	Renewal	Leadership	ASTM F15.72, Flame Mitigation Devices on Disposable Fuel Containers*
Ayers, S.	Apr-21	Renewal	Leadership	ANSI/CSA Z21 Gas Ranges*
Smith, T.	Apr-21	New	Voting	ANSI Z535 Safety Colors and Signs*
Talcott, K.	Apr-21	New	Voting	ASTM F15.42 Clothing Storage Units*
Ayers, S.	Apr-21	Renewal	Voting	ASTM F15.10 Gasoline Containers*
Ayers, S.	May-21	New	Voting	UL 30 Safety Cans*

*Voting or leadership activity carried over from FY 2021.

FY 2022 Staff Voluntary Standards Activities Summary

Children’s Products and Hazards

Durable Infant and Juvenile Products

The voluntary standards listed in this section are durable infant or toddler products. Section 104 of the CPSIA directed the Commission to work with stakeholders and SDOs to develop consumer product safety standards for durable infant and toddler products. Once a regulation is promulgated, the Commission is notified of any updates to the standard. Unless the Commission acts, the revised standard will replace the previous rule in 180 days. 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 F2194-16e1	<i>Standard Consumer Safety Specification for Bassinets and Cradles</i>

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

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

Activities Summary Staff continues to work with the subcommittee on safe sleep issues related to 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 recommendations for maintaining or improving safety of these products.

Meeting(s)

Staff participated in an ASTM F15.18 subcommittee meeting to discuss ballot outcomes (compact bassinets will be added to standard) and task group updates. The issue of “legs” on bassinets resulted in the formation of a new task group.

Staff participated in a task group meeting to discuss issues related to baby boxes, such as potential suffocation hazards from lids and potential structural failures due to lack of 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 ASTM F15.18 subcommittee cantilever bassinet incident data along with a letter requested that a task group be formed to review incidents and propose performance requirements.
12/8/2021	IDI	Staff provided ASTM F15.18 subcommittee a redacted IDI for an in-bed sleeper bassinet.

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 water repellency and suffocation concerns with lids on “baby boxes.” The item was unresolved at the end of the reporting period.

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

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

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

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

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

Next Action Staff will participate in the next ASTM subcommittee meeting scheduled for May 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
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ASTM F2640-18	<i>Standard Consumer Safety Specification for Booster Seats</i>
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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) Staff did not participate in any voluntary standards meetings related to this topic 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 a subcommittee meeting, and developed questions for the subcommittee on testing issues.

Meeting(s) Staff participated in a subcommittee meeting 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 requested by the subcommittee members.

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

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

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

Changing Products

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

Staff Contact Mella, Lawrence

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

Standard(s) Update 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. Staff was preparing a briefing package for Commission consideration at the end of the reporting period.

Staff evaluated the changes to the rule and, at the end of the reporting period, planned to deliver a briefing package to the Commission in April.

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

Activities Summary

Staff continues to work with the ASTM F15.18 subcommittee on safety issues related to baby changing products. During the reporting period, staff provided input that there were no incidents that specifically indicated contoured changing pads and provided input to discussion of potential changes for new designs in the market.

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 they discussed that the subcommittee chair was stepping down. Staff participated in two task group meetings on contoured changing pads.

Communication(s)

There were no formal communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2021	ASTM F2388	This revision updated a figure, to align information with other standards using the same testing apparatus. Two administrative negatives were withdrawn in 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 F2613-21	<i>Standard Consumer Safety Specification for Children’s Chairs and Stools</i>

Standard(s) Update

The voluntary standard listed here was not updated during the reporting period.

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

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 a 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.

Communication(s)

Date	Type	Summary
12/22/2021	Data	Annual children’s folding chair 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 upcoming subcommittee meetings in May 2022.

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 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. There was no activity during the reporting period.

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

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

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

Next Action Staff will provide the subcommittee an update on incident data. Staff will participate in any subcommittee meetings that are scheduled.

Crib Mattresses (including After-Market Mattresses for Play Yards and Non-Full-Size Cribs)

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 after-market 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*, which changed warnings and instructions in the standard. Staff voted against the ballot items, but the vote was found non-persuasive.

Relevant Rulemaking The notice of proposed rule (NPR) for the *Safety Standard for Crib Mattresses* was published in the *Federal Register* (85 FR 67906) on October 26, 2020. 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 voluntary 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 task groups and related activities, as well as presented a final rule to the Commission.

Meeting(s) Staff participated in an ASTM F15.66 subcommittee meeting to discuss ballot outcomes, including discussions on the ballot that found staff's negative comment non-persuasive, which led to publication of the new revision. Task group updates were also discussed and focused on reviewing staff's draft final rule package.

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

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

Next Action Staff will participate in upcoming subcommittee meetings, including the next ASTM subcommittee meeting scheduled in May 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 F2549-14a	<i>Standard Consumer Safety Specification for Frame Child Carriers</i>

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

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

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

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

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

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
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 expects to receive notification once the standard is published in June 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 of these products.

Communication(s)

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

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

Next Action Staff expects to receive notification once the standard is published and will participate in related upcoming subcommittee meetings in May 2022.

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 F1004-21	<i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures</i>

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

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

The updated rule became effective in January 2022.

Activities Summary Staff continues to work with the ASTM F15.16 subcommittee on improving the safety of gates and enclosures. During the reporting period, staff participated in a subcommittee meeting and a task group meeting on retractable gates.

Meeting(s) Staff participated in a subcommittee meeting and a task group meeting on retractable gates. The task group meeting was in response to a safety issue with retractable gates raised by staff in a 2020 letter, which provided data to the subcommittee and advocated for a new fabric performance requirement for certain types of gates. Also, staff suggested including a warning label on the “hook side” of the gate to alert about these issues.

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

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

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

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

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

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

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

Next Action Staff will participate in 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 In January 2022, ASTM published ASTM F404-21, the latest revision to the *Standard Consumer Safety Specification for High Chairs*. This revision includes changes to the design and placement of the test weight for stability testing. On January 24, 2021, ASTM notified CPSC of an update to the standard. Staff was preparing a briefing package for Commission consideration at the end of the reporting period.

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

Activities Summary Staff continues to work with the ASTM F15.16 subcommittee on improving safety of high chairs. During the reporting period, staff participated in task group meetings on placement of the test weights for the stability test requirements.

Meeting(s) Staff participated in a meeting where the subcommittee discussed ballot results (F15 21-05, item 4) and moved the standard forward for publication.

Communication(s)

Date	Type	Summary
10/20/2022	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 The Commission will review and vote on the latest revision of the standard. There is no high chairs subcommittee meeting scheduled in May 2022.

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

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

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

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

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

Infant Bath Tubs

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

Staff Contact Foster, Zachary

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

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

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

In March 2022, ASTM published ASTM F2670-22, the latest revision to the *Standard Consumer Safety Specification for Infant Bath Tubs*. This revision includes changes to the introduction, references, marking and labeling provisions, and resistance to collapse. On March 28, 2022, ASTM notified CPSC of an update to the standard. Staff was preparing a briefing package for Commission consideration at the end of the reporting period.

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 began preparing a briefing package for Commission consideration.

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

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	N/A	Ballot F15(21-10) addressed latching and locking mechanisms. The ballot item passed.

Next Action Staff will participate in any upcoming subcommittee and task group meetings. The next subcommittee or task group meeting has not been scheduled. Staff will also deliver a briefing package to the Commission in June.

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 F2167-19	<i>Standard Consumer Safety Specification for Infant Bouncer Seats</i>

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

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

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

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

Communication(s)	Date	Type	Summary
	10/20/2022	Incident Data	Staff provided the subcommittee with the incident data for infant bouncer seats for June 2017 through July 2021.

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	N/A	Ballot F15(21-10, item 7) addressed warning language. The ballot item passed.

Next Action Staff will participate in upcoming subcommittee meetings for infant bouncer seats on May 23, 2022. Staff will email a summary of the 2021 annual data review of incidents to the ASTM subcommittee chair in June 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 not updated during the reporting period.

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 a subcommittee meeting that discussed revisions to the standard in line with the new infant sleep products rule. The group

agreed to proceed with a ballot to remove *inclined* from the title, clarify the suffocation hazard in the introduction, reduce the age range covered, align definitions with other standards, and clarify testing details.

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

<i>Ballot(s)</i>	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 be a more inclusive standard for different infant sleep products. Staff submitted a negative vote because the changes did not fully align with the agency final rule. The ballot item was unresolved at the end of the reporting period.

Next Action Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting scheduled in May 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 F2088-21	<i>Standard Consumer Safety Specification for Infant and Cradle Swings</i>

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

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

In June 2021, ASTM published ASTM F2088-21 *Standard Consumer Safety Specification for Infant and Cradle Swings*. On August 2, 2021, ASTM notified CPSC of the update to the standard. On October 28, 2021, the Commission published a direct final rule in the *Federal Register* to update 16 CFR part 1223 *Safety Standard for Infant Swings*, to incorporate by reference ASTM F2088-21 (86 FR 59612). The rule became effective on January 29, 2022.

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” that would be subjected to the performance requirement and testing. Staff recommended requirements and testing. Staff reiterated that the current length requirement (up to 16 inches) is not sufficiently effective for some current tethered straps designs.

Meeting(s)

Staff participated in subcommittee meetings and a task group meeting on requirements related to strangulation hazards of tethered straps.

Communication(s)

There were no formal communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
January 2022	N/A	Ballot F15(21-10, item 6) addressed warning language. A negative vote on the accessibility of warnings in English was found non-persuasive. Staff abstained from voting but provided a comment of support. The ballot item passed.

Next Action

Staff will participate in upcoming task group meeting for tethered straps strangulation hazards, when scheduled.

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 F977-18	<i>Standard Consumer Safety Specification for Infant and Infant Walkers</i>

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

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

Activities Summary Staff continues to work with the ASTM F15.17 subcommittee on safety issues related to infant walkers. During the reporting period, staff engaged in reviews of the new revision to the standard and reviewed a ballot proposal.

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

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	N/A	Ballot F15(21-07, item 2) addressed revisions to notes that recommended performing certain procedures. A negative vote indicating that the these notes constituted more than a “best practice” was found persuasive. The item was removed from the ballot.

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

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>
	ASTM F2933-21a	<i>Standard Consumer Safety Specification for Crib Mattresses</i>

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, which changed warnings and instructions in the standard. Staff voted against the ballot items, but the vote was found non-persuasive.

Relevant Rulemaking

On February 15, 2022, the Commission published the final rule 16 CFR part 1220, *Safety Standard for Non-Full-Size Baby Cribs* (87 FR 8640) with an effective date of August 15, 2022. The final rule references ASTM F2933-21, the previous version of the standard.

16 CFR part 1221, *Safety Standard for Play Yards*

Activities Summary

Staff continues to work with the ASTM F15.18 and F15.66 subcommittees on safe sleep issues related to crib mattresses, non-full-size baby cribs, and play yards. During the reporting period, staff participated in task groups and related activities, voted on and suggested an alternate test method for a proposed gap measurement, and presented a crib mattresses final rule to the Commission.

Meeting(s)

Staff attended a subcommittee meeting and multiple task group meetings. In the subcommittee meeting, previous ballot results were discussed, with one negative vote found persuasive. Among other task group reports, staff reiterated issues with measuring the gap between the mattress and wall of the play yard. Staff attended task group meetings covering sleep angle, zipper access, and Ad Hoc warnings.

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 from what was proposed in ballot F15(22-01) item 5, to address measuring gaps between a play yard mattress and side wall.
March 10, 2022	Data	Staff provided summary play yard incident data to the subcommittee for the period from 7/7/2020 to 7/7/2021.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
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 over 1.5 inches thick and a proposed method for testing the gap. Staff submitted a negative vote. The ballot item was unresolved at the end of the reporting period.

March 2022	ASTM F406	Ballot F15(22-02) item 3 proposed new scope language for products “for play only.” The ballot item was unresolved at the end of the reporting period.
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Next Action Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting scheduled in May 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	<i>Standard Consumer Safety Specification for Portable Bed Rails</i>

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 provided incident data to the subcommittee.

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

Communication(s)	Date	Type	Summary
	10/20/2021	Incident Data	Staff provided the subcommittee with the incident data for children’s portable bed rails for the period from April 2020 through August 2021.

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

Next Action Staff will participate in any scheduled subcommittee meetings.

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

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

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

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

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

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

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

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

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

Sling Carriers (Infant and Toddlers)

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

Staff Contact Foster, Zachary

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

Standard(s) Update 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 in 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.

Relevant Rulemaking

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

Activities Summary

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

Meeting(s)

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

Communication(s)

There were no formal communications during the reporting period.

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 a task group meeting in April 2022 and will participate in any upcoming subcommittee and task group meetings. Staff is also preparing a briefing package to be delivered to the Commission after official notification regarding ASTM F2907-22.

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

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

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

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

Next Action Staff will participate in 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 portable bed rails 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. The subcommittee did not meet during the reporting period. During the reporting period, staff received and reviewed the annual stationary activity centers-related incident report.

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

Communication(s)

Date	Type	Summary
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10/20/2021	Incident Data	Staff provided the subcommittee with the incident data for children's portable bed rails for the period April 2020 through August 2021.
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Ballot(s) There were no ballots during the reporting period.

Next Action Staff will provide the subcommittee the annual staff incident data review. Staff will participate in the next subcommittee meeting, when scheduled. Staff will provide the subcommittee with a summary of the annual incident report and continue working with the subcommittee to address the suspension strap failures.

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

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

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

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

Next Action Staff will participate in the next ASTM subcommittee meeting, scheduled for May 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	<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 The voluntary standards listed here were not updated during the reporting period.

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

Activities Summary During the reporting period, staff participated in subcommittee meetings 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* published in the *Federal Register* (85 FR 18878) on April 3, 2020. At the end of the reporting period, staff was developing a draft final rule briefing package.

Activities Summary There were no activities during the reporting period.

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

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

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

Next Action Staff will participate in the next infant bedding subcommittee meeting, scheduled for May 2022.

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 F2517-17	<i>Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use</i>

Standard(s) Update

The voluntary standard listed here was not updated during the reporting period.

Relevant Rulemaking

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

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 besides 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.
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.
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.

Next Action

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

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 committee 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 and 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 developing voluntary standards for each of these product categories.

Meeting(s) Staff attended multiple subcommittee and task group meetings for infant loungers and infant feeding and 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.

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 May 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 ballots below, 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 summer 2022.

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 ILS for ASTM D7823 and ASTM D8133.

Communication(s)	Date	Type	Summary
	October 14, 2021	Letter	Staff provided a formal response supporting ballot F15(21-07) item 9.

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.

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 July 2022.

Emerging Technology

Additive Manufacturing/3D Printing

Purpose

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

Staff Contact Thomas, Treye

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

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

Relevant Rulemaking N/A

Activities Summary Staff continues to participate in several 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. 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 2904 STP meetings discussing comments from the industry review of the next edition to the standard.

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

Communication(s) There were no formal 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) as a new standard guide for wire arc energy directed deposition was issued during the reporting period but closed after the reporting period.

Next Action Staff expects the updates to the UL 2904 standard for emissions testing to be reviewed and balloted. 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 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. Staff held an AI Test and Evaluation Forum on March 31, 2022, including a presentation by UL and discussion of standards and considerations for safety in the evaluation of autonomous products.

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

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

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

Next Action Staff plans to participate in the next STP meeting for UL 4600 on June 8 and June 9.

Internet of Things (IoT)/Connected Products

Purpose To work with UL, 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, <i>Standard Guide for Ensuring the Safety of Connected Consumer Products</i> . The voluntary standard was revised to clarify language and the objective, define the term <i>consumer product</i> , outline how the guide could be applied, and update references.
Relevant Rulemaking	N/A
Activities Summary	There has been no activity associated with the standard during the reporting period.
Meeting(s)	Staff did not participate in any voluntary standards meetings related to this topic during the reporting period.
Communication(s)	There were no formal communications during the reporting period.
Ballot(s)	There were no ballots during the reporting period.
Next Action	Staff plans to participate in the next scheduled subcommittee meeting, when scheduled.

Nanotechnology

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

Staff Contact Matheson, Joanna

Voluntary Standard(s)	Designation and current version	Title
	ASTM E3025-16	<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 WK60554	Potential new guide for evaluating impact of particles and other materials on phagocytic function in vitro
ISO/TS 13830:2013	<i>Nanotechnologies — Guidance on voluntary labelling for consumer products containing manufactured nano-objects</i>
ASTM E3025-16	<i>Standard Guide for Tiered Approach to Detection and Characterization of Manufactured Silver Nanomaterials in Textiles</i>
ASTM WK48313	Potential new guide for collection and generation of environment, health, and safety information for nanomaterials and nano-enabled products
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 WK60554	Potential new voluntary standard for detection of nitric oxide production
ISO/TS 13830:2013	<i>Nanotechnologies — Guidance on voluntary labelling for consumer products containing manufactured nano-objects</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 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 in October 2021, November 2021, December 2021, and January 2022, and discussed current projects and potential new work item proposals. Staff also participated in a US TAG to ISO/TC 229 meeting in December 2021 and discussed work in the ISO/TC 229 working groups.

Staff also participated in an ASTM E56 committee meeting in November 2021, where among other items, staff discussed revising ASTM E3025.

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

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

Next Action Staff will participate in upcoming subcommittee meetings.

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

Purpose To work with UL 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 revising 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 actively 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, and Functional Safety.

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

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

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

Wearables

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

Staff Contact Thomas, Treye

<i>Voluntary Standard(s)</i>	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 and prepare it for ballot. During the reporting period, staff participated in numerous task groups and emphasized safety concerns for the subject immersive technologies, particularly regarding foreseeable use of the products by vulnerable age groups and the importance of normative requirements.

Meeting(s) Staff participated in three UL 8400 STP meetings, where staff joined in discussions on the development of UL 8400.

Staff participated in regular, reoccurring meetings for the UL 8400 task group on safety and warning instructions, where staff assisted in developing requirements regarding to safety messaging.

Staff participated in several meetings for the UL 8400 task group on vulnerable age groups, where staff assisted in developing age-related warning requirements.

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

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

Next Action The STP plans to finalize and ballot a draft of the standard. Following its publication, the STP will continue to meet to address continuing concerns and investigate emerging hazards with the subject immersive technologies.

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.

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, provided and characterized data, and briefed the group on agency activities.

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

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

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

Next Action Staff plans to send a letter requesting the new revision task group to review staff's proposed minimum revisions to the standard, as outlined in the previous briefing package. Staff will work with the task group to review the remainder of the standard and discuss other proposals. Staff will brief the subcommittee on the NPR once it is completed.

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

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

Standard(s) Update The voluntary standard 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. During the reporting period, staff provided data on falls in bathtubs and showers covering a 10-year period, participated in subcommittee meetings, and provided feedback on the agency's contract on creating Reference Surfaces (RS) for testing.

Meeting(s) Staff participated in several task group meetings focused on incident data review, reference surfaces for testing, and the CPSC's contract to facilitate developing those reference materials, and other tasks to develop a new standard that addresses slip and fall hazards.

Communication(s)	Date	Type	Summary
	11/23/2022	Incident Data	Staff provided the subcommittee with fall-related bathtub and shower incident data for the period from 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

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, fire, 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 2271, 2 nd Edition	<i>Standard for Batteries for Use in Light Electric Vehicle (LEV) Applications</i>
UL 2849, 1 st Edition	<i>Standard for Electrical Systems for eBikes</i>
UL 1310, 7 th Edition	<i>Standard for Safety for Class 2 Power Units</i>
UL 1012, 8 th Edition	<i>Standard for Power Units Other Than Class 2</i>
UL 9540, 2 nd Edition	<i>Standard for Energy Storage Systems and Equipment</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-2021	<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 N/A

Activities Summary Staff continues to work with ASTM and UL on improving the overall safety of the battery-powered products with primary focus on e-mobility devices and ebikes. This impact also concerns battery chargers. During the reporting period, staff has participated in one STP meeting for UL 2849, focused on functional safety and in technical meetings for ASTM F15.58, including the full group meetings and the electrical systems working group. Staff has participated in several virtual ANSI C18 meetings. Staff's efforts in all these activities focus on improving 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 ingestion and fire-related battery issues.

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

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

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

Next Action Staff will participate in an ANSI C18 standards meetings on June 14-15, 2022. Staff intends to participate in the STP UL 1642 virtual meeting to discuss recent standard proposals on June 15, 2022. Staff intends to continue participation on ANSI C18.6 Lithium-Ion Battery Technical Report, although work has paused temporarily while a new chair for the initiative is determined.

Batteries, Ingestion (Button)

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

Staff Contact Le, Huy

Voluntary Standard(s)	Designation and current version	Title
	UL 4200A, 1 st Edition	<i>Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies</i>
	UL 60065, 8 th Edition	<i>Standard for Audio, Video, and Similar Electronic Apparatus—Safety Requirements</i>
	ANSI C18.1M Part 2-2019	<i>American National Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard</i>
	ANSI C18.2M Part 2-2021	<i>American National Standard for Portable Rechargeable Cells and Batteries—Safety Standard</i>
	ANSI C18.3M Part 2-2021	<i>American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard</i>
	ANSI C18.4M-2021	<i>American National Standard for Portable Cells and Batteries- Environmental</i>
	ASTM F963-17	<i>Standard Consumer Safety Specification for Toy Safety</i>

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

Relevant Rulemaking ASTM F963-17, *Standard Consumer Safety Specification for Toy Safety*

Staff conducted data analysis and research in support of a button battery NPR briefing package.

Activities Summary During the reporting period, staff provided an update on staff's 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.

Meeting(s) Staff participated in ANSI C18 meetings in October and March, to discuss button and coin cell battery ingestion hazards

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

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

Next Action Staff will participate in ANSI C18 standards meetings on June 14-15, 2022. Staff will participate in other related button and coin cell battery standards, including ASTM F963, as needed. Staff will review end-product standards where button and coin cell batteries are used in products, to determine if existing requirements are adequate to prevent children from accessing the batteries. Staff is also preparing an NPR briefing package to address battery ingestion hazards.

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 N/A

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 supports adding changes that address candle-making kits, end-of-useful life, and wick migration.

Staff participated in two meetings discussing possible changes to F2417.

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 quarterly incident data teleconferences. The subcommittee plans to revise F2417 this calendar year and F2601 next calendar year. Staff will participate in discussions related to potential revisions to ASTM F2417 and ASTM F2601. The next subcommittee meeting is scheduled for May 20, 2022.

Carbon Monoxide (CO) Alarms

Purpose

To work with UL 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

Matthew J. Brookman

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. Staff continued to review proposals and monitor the CO alarm market. Additionally, staff continued working with the contractor in completing the Smoke and CO Alarms Survey.

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 will continue working with the contractor in completing the Smoke and CO Alarms Survey.

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. 2, 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) There were no formal communications during the reporting period.

Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2021	ASTM F2057	ASTM F15(21-08) item 2 proposed to address unit height measurements when adjustable feet are included. The item was removed from the ballot.
November 2021	ASTM F2057	ASTM F15(21-08) item 3 proposed to remove the term <i>nightstand</i> from the standard, replacing it with a volume measurement threshold. The item was removed from the ballot.
November 2021	ASTM F2057	ASTM F15(21-08) item 4 proposed language to address testing of interlocking drawers. The item was removed from the ballot.

Next Action Staff will continue working on the final rule and will participate in upcoming subcommittee and task group meetings.

Electric Heaters

Purpose To work with UL 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	Standard for Movable and Wall-or Ceiling-Hung Electric Room Heaters

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

Relevant Rulemaking N/A

Activities Summary In October 2021, UL 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. UL issued a ballot of the marking and labeling proposal in December 2021; the ballot closed in January 2022, and it passed. Staff is also analyzing data and researching 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) Staff did not participate in any voluntary standards meetings related to this topic 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 UL to improve or develop fire safety requirements for flame-mitigation devices and other fire safety features in various types of portable fuel containers, such as gasoline containers.

Staff Contact Ayers, Scott

Voluntary Standard(s)

Designation and current version	Title
ASTM F3429 / ASTM F3429M-20	<i>Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers</i>
ASTM F852 / ASTM F852M-22	<i>Standard Specification for Portable Gasoline Kerosene, and Diesel Containers for Consumer Use</i>
ASTM F3326-21	<i>Standard Specification for Flame Mitigation Devices on Portable Fuel Containers</i>
ASTM F839-15	<i>Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use</i>
UL30, 9 th Edition	<i>Standard for Metal Safety Cans</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-20, *Standard Specification for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use*. The voluntary standard was revised to add heat-resistance requirements for the container body.

Relevant Rulemaking

Portable Fuel Container Safety Act of 2020

Activities Summary

During the reporting period, staff worked with the UL 30 STP to revise the current edition of the voluntary safety standard. 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 30 STP 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 with 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 formal communications during the reporting period.

Date closed	Voluntary Standard	Summary and Results (If Applicable)
March 2022	UL 30	Recirculation ballot incorporated a 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 April to discuss compliance to the voluntary standard and possible future requirements.

Flammable Refrigerants

Purpose To work with the various UL and ASHRAE standards work groups to revise the voluntary standards associated with consumer products that use 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, 2 nd 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 15.2P	Potential new voluntary standard for refrigeration systems in residential applications

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 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 did not participate in any voluntary standards meetings related to this topic during the reporting period.

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.

Next Action Staff will participate with the CANENA work group revising UL/CSA 60335-2-40; the next meeting is scheduled for April 8, 2022. Staff will participate with the ASHRAE 15.2P committee, as needed. Staff will participate with the CANENA work group if it considers revising UL/CSA 60335-2-24.

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, including those underway at CPSC.

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

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

Next Action Staff will participate in upcoming meetings.

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). Staff conducted data analysis and technical research in support of an NPR.

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 update the voluntary standard bodies on the status of the ANPR/NPR and related contractor reports, when appropriate. Staff will continue to monitor or participate 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 a draft of the next edition of ANSI Z21.1 for ballot this fall. Some of the requirements the TSC is proposing include requirements 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 to prepare for balloting the draft of the next edition of the standard.

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

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

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

Next Action Staff will continue to chair the CSA TSC. Staff will participate in future TSC meetings, as scheduled. Staff will also continue to participate with various industry, government, and advocacy stakeholders to review IAQ issues associated with gas ranges if recommendations or proposals to voluntary standards bodies are the potential outcomes. The next meeting is scheduled for April 12, 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 WK58354	Potential new voluntary standard practice for measuring chemical emissions from SPF insulation samples in a large-scale ventilated enclosure

ASTM WK58356	Potential new voluntary standard for modeling indoor concentrations of chemical substances from indoor materials
ASHRAE 62.2-2019	<i>Ventilation and Acceptable Indoor Air Quality in Residential Buildings</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 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 developing 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 to review 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 WK58354 and Per and Poly-Fluoroalkyl Substances (PFASs) were discussed.

Staff met monthly with various industry, government, and advocacy stakeholders on reviewing IAQ issues associated with gas ranges. This group is still considering how to accomplish work.

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 WK58354	Ballot item (D22-01, Item 7) to publish as a new standard. The item passed.
March 2022	ASTM D8141	Ballot item (D22-02, Item 1) to include new references. The ballot results were not reviewed before 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. Staff will continue to participate with various industry, government, and advocacy stakeholders on reviewing IAQ issues associated with gas ranges if recommendations or proposals to voluntary standards bodies

are a potential outcome. The next meeting is scheduled for April 12, 2022.

Liquid Laundry Packets

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

Staff Contact Hurley, Jill

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

Standard(s) Update 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 standards' scope should be expanded to include other age groups and hazards, such as ocular and dermal.

Meeting(s) Staff attended subcommittee meetings and several task group meetings, focused on scope, data, ocular, and senior/dementia issues. Staff presented on its 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.

Communication(s) There were no formal 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 after 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 Souk

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 in 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 once to discuss open work items; this was the first TSC meeting in almost 2 years.

Communication(s) There were no formal 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 that spare LP gas cylinders cannot be stored within a gas grill and provisions for smart-enabled outdoor cooking gas appliances.

Next Action Staff will participate in upcoming NFPA 58 technical committee meeting scheduled in May 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	<i>Standard Test Method for Evaluating Wind Safety and Durability of Market Umbrellas</i>
	ASTM WK 81182	Potential new standard for evaluating wind safety and stability of beach umbrellas

Standard(s) Update 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 to develop new standards. During the reporting period, staff provided comments on draft documents, actively participated in task group meetings on establishing scope and test requirements, and staff 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 once a month.

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 umbrella requirements in any new standards.

Next Action Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM F15.79 subcommittee meeting scheduled in May 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 backover hazards relating to residential riding lawn mowers.

Meeting(s) Staff met with the OPEI B71.1 committee in March to discuss how CPSC and OPEI can collaborate on the review of riding lawn mower incident data and on possible future mower rollover research. Staff will provide incident data to OPEI for joint review of data.

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

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

Next Action Staff will have a follow-up meeting with the OPEI B71.1 committee in April 2022, to discuss CPSC’s potential contract work to study rollovers of riding mowers. Staff is planning to participate in another meeting with the OPEI B71.1 committee in mid-summer 2022, to jointly review and categorize riding mower incident data. This will facilitate future collaboration on development of the B71.1 standard.

Portable Generators

Purpose To work with UL 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 standard listed here was 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.

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

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

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

Next Action Staff plans to provide incident data to UL and PGMA in April 2022.

Pressure Cookers

Purpose To work with UL 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>

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

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

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

Next Action Staff anticipates a preliminary teleconference with STP 136 members to discuss the issues, depending on the committee’s schedule, by July 2022.

Smoke Alarms

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

Staff Contact Lee, Arthur

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

Standard(s) Update 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. Staff continued working with the contractor in completing the Smoke and CO Alarms Survey.

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

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

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

Next Action Staff plans to attend the UL 217 meeting in the fall/winter 2022. Staff plans to attend the first draft technical meeting of NFPA 72 on Single and Multiple Station Alarms in July 2022. Staff will continue working with the contractor in completing the Smoke and CO Alarms Survey

Table Saws

Purpose To work with UL 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) Staff did not participate in any voluntary standards meetings related to this topic during the reporting period.

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

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

Next Action Staff will respond to an UL representative inquiry regarding a staff letter to UL dated September 20, 2021. Staff plans to reiterate information in the letter, stating that staff's analysis of NEISS data trends related to blade-contact injuries on table saw shows the trend has not changed since 2010, indicating that the latest revision to UL 987 incorporated into UL

62841-3-1 may not be effective in reducing blade-contact injuries on table saws.

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 fuel and lamp oil packaging, the color and odor of torch fuel and lamp oil, and the use and design of devices principally intended to house torch fuel and lamp oil.

Staff Contact White, Sharon

Voluntary Standard(s)	Designation and current version	Title
	ASTM F3304-21	<i>Standard Specification for Lamp Fuel and Torch Fuel Packaging</i>
	ASTM WK76994	Potentially new voluntary standard for lamp and torch fuel odor and color

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 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 ASTM F3304-21 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 twice during the reporting period 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.

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

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

Next Action Staff will participate in the next scheduled meeting, which has not been scheduled.

Upholstered Furniture

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

Staff Contact Lock, Andrew

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 subcommittee and NFPA committee. During the reporting period, staff advised the committees on the details of the new federal standard and provided feedback on other tests for upholstered furniture flammability, which 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 provided the subcommittee an update on recent CPSC rulemaking.

Staff attended a NFPA fire test committee, second draft meeting, where staff provided the committee with a brief update of activity on implementation of 16 CFR part 1640.

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

Ballot(s)	Date closed	Voluntary Standard	Summary and Results (If Applicable)
	January 2022	NFPA 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 in June 2022 and March 2023, respectively. Staff will provide feedback on proposed new and revised standards. Staff will participate in round-robin testing for upholstered furniture testing, as appropriate.

Washing Machines

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

Staff Contact Kim, Yeon Souk

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

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

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

Next Action Staff plans to provide incident data to UL.

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
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ANSI/WCMA A100.1-2018	<i>Standard for Safety of Corded Window Covering Products</i>
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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 reviewed and provided comments on draft revisions to the standard.

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 provided comment on proposed revisions to the standard.

Communication(s)

Date	Type	Summary
March 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.

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

Next Action Staff will prepare a final rule briefing package for Commission consideration. 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	<i>Standard Terminology Relating to Amusement Rides and Devices</i>
ASTM F770-21a	<i>Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices</i>
ASTM F1193-18a	<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 F2970-20	<i>Standard Practice for Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts</i>
ASTM F2974-20	<i>Standard Practice for Auditing Amusement Rides and Devices</i>
ASTM F2291-21	<i>Standard Practice for Design of 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 removed the definition of *owner/operator*.

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.

Relevant Rulemaking

N/A

Activities Summary

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

Meeting(s)

Staff attended multiple subcommittee and task group meetings for amusement 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)

There were no formal communications during the reporting period.

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 guide to standard. The item received no negatives but remains unresolved. F24 typically publishes revisions in June.
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 negatives were withdrawn, but the item remains unresolved. F24 typically publishes revisions in June.
February 2022	ASTM F1193	Ballot F24(21-07) item 6 proposed changed language to highlight how to handle non-conforming components. The item remains unresolved.
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 received no negatives but remains unresolved. F24 typically publishes revisions in June.
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. F24 typically publishes revisions in June.
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. F24 typically publishes revisions in June.
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 received no negatives but remains unresolved. F24 typically publishes revisions in June.
February 2022	ASTM F2291	Ballot F24(21-07) item 24 proposed changes to highlight responsibilities of designer/engineer. The item received no negatives but remains unresolved. F24 typically publishes revisions in June.
February 2022	ASTM F2974	Ballot F24(21-07) item 25 proposed changed language to harmonize terms between standards. The item received no negatives but remains unresolved. F24 typically publishes revisions in June.
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 received no negatives but remains unresolved. F24 typically publishes revisions in June.
February 2022	ASTM F2291	Ballot F24(21-07) item 38 proposed addressing head-worn accessories. The item negatives were withdrawn, but the item remains unresolved. F24 typically publishes revisions in June.

Next Action

Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee that has not yet been scheduled.

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, ROHVA, and OPEI representing off highway vehicle (OHV) manufacturers to discuss issues such as fire and hot surface and debris penetration 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) There were no ballots during the reporting period.

Next Action Staff is scheduled to meet with OPEI, SVIA, and ROHVA on April 1, 2022. SEA staff will give a presentation on ATV occupant protection devices (OPDs).

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 <i>Requirement for Bicycles</i>
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 of 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.
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 fall subcommittee meeting, 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 formal communications during the reporting period.
Ballot(s)	There were no ballots during the reporting period.
Next Action	Staff will participate in upcoming subcommittee meetings in May 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 2019	<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.

Meeting(s) Staff participated in one APA meeting where staff discussed potential revisions to APA 87-1A.

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

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

Next Action Staff will participate in upcoming APA and AFSL standards committee meetings, including the APA annual meeting scheduled in September 2022.

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).

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 centered on drafting ballot items pertaining to performance requirements, and marketing and educational requirements.

Meeting(s) Staff participated in a subcommittee meeting, where they briefed the group on the scope and process of the NPR. 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 formal 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 March 8, 2022. The revision added chromated copper 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 as even though it is not sold in the US, it could be imported. 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 the slide strangulation.

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

<i>Applicable Ballot(s)</i>	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 upcoming subcommittee meeting on May 16, 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
	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 on playground fencing, where the committee considered changing ASTM F2049 from a specification to a guide but did not end up making the change. Staff had concerns about changing the standard from a specification to a guide.

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

Ballot(s)

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.
April 2022		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 had not closed at the end of the reporting period.

Next Action Staff will participate in upcoming subcommittee meetings at the ASTM playground meetings in May 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 F1951-14	<i>Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment</i>
ASTM F3012-14	<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 F3351-19	<i>Standard Test Method for Playground Surface Impact Testing in Laboratory at Specified Test Heights</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 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 did not participate in any voluntary standards meetings related to this topic during the reporting period.

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

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

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

Pool, Portable Unprotected (Child Drowning)

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

Staff Contact Bathalon, Susan

Voluntary Standard(s)	Designation and current version	Title
	ASTM F2666-16	<i>Standard Specification for Aboveground Portable Pools for Residential Use</i>
	ANSI/APSP/ICC-4a-2013	<i>American National Standard for Above-Ground/On-Ground Residential Pools</i>
	ANSI/APSP/ICC-8 2005 (R2013)	<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 voluntary standards listed here were not updated during the reporting period.
Relevant Rulemaking	N/A
Activities Summary	During the reporting period, staff participated in task group meetings for a new work item on drowning detection. The ASTM and ANSI/ICC/PHTA standard activities are centered on revision of barrier safety requirements to prevent drowning of young children.
Meeting(s)	Staff participated in the task group for ASTM WK76767, a potential new standard for computerized vision for drowning detection in residential swimming pools. Additionally, staff attended meetings of the PHTA-4 Standard Writing Committee (SWC) for aboveground/on-ground swimming pools, and assisted with incident data review, as well as developing more specific language in barrier safety, entrapment hazards, reapproval of the standard, and ladder accessibility and fall hazards.
Communication(s)	There were no formal communications during the reporting period.
Ballot(s)	There were no ballots during the reporting period.
Next Action	Staff will participate in upcoming task group 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.

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 to discuss possible standard performance requirements for OHV fire hazards. Also, OPEI and ROHVA committee members presented preliminary ideas for test methods 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

Ballot(s)

There were no ballots during the reporting period.

Next Action

At the end of the reporting period, staff was scheduled to meet with OPEI, SVIA, and ROHVA on April 1, 2022 to discuss and witness testing for ROV/UTV debris penetration. Staff is preparing a draft NPR for ROV/UTV Debris Penetration Hazards for Commission consideration.

Self-Balancing Scooters and Light Electric Vehicles

Purpose

To work with ASTM and UL 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 UL on existing and new safety standards for micromobility products such as hoverboards, ebikes, 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 multiple task group meetings for ASTM WK70724 on brakes, tires/operable terrain/suspension, and electrical requirements. Staff also participated in a STP meeting on the electrical systems for ebikes.

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

Communication(s)

Date	Type	Summary
11/22/2021	Data Report	Staff sent the ASTM F15.58 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 May 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 F1446-20	<i>Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear</i>
ASTM F1447-18	<i>Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating</i>
ASTM F2220-15	<i>Standard Specification for Headforms</i>

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

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

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

Next Action Staff plans to attend the next subcommittee meeting this April and attend the upcoming F08 subcommittee week in May.

Swimming Pools/Spas, Drain Entrapment

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

Staff Contact Eilbert, Mark

Voluntary Standard(s)	Designation and current version	Title
	ANSI/APSP/ICC 16-2017	<i>American National Standard for Above-Ground/On-Ground Residential Pools</i>

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 further 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 September 21, 2021 letter, 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, which references requirements for dual drain separation.

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

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

Next Action Staff will participate in upcoming PHTA meetings.

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, that 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 N/A

Rulemaking

- Activities Summary** There has been no activity associated with the standard during the reporting period.
- Meeting(s)** Staff did not participate in any voluntary standards meetings related to this topic during the reporting period.
- Communication(s)** There were no formal communications during the reporting period.
- Ballot(s)** There were no ballots during the reporting period.
- Next Action** Staff will participate in upcoming PHTA meetings.

Tents

Purpose To work with ASTM on developing a voluntary standard to address the hazards associated with 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 proposed a test methodology for material evaluation for task group review.

Meeting(s) Staff participated in two ASTM F08.22 subcommittee meetings during the reporting period. Staff volunteered to participate in a task group.

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

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

Next Action Staff will participate in a June meeting of the subcommittee and September meeting of the task group. Staff will support the development of a potential screening test or testing exemptions or exceptions related to the weight or construction of a recreational camping tent by assisting with sample selection and test methodology development.

Treadmills

Purpose To work with ASTM and UL 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 over a 10-year period and participated in subcommittee and task group meetings.

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
11/23/2022	Incident Data	Staff provided the subcommittee with treadmill incident data for the period January 2010 through September 2021.

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

Next Action Staff will continue participating in monthly task group meetings and will participate in-person in May 2022 subcommittee meetings.

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 have been participating in several NFPA model codes for many years. During the reporting period, staff joined the NFPA 58 committee. Staff met with ICC and IAPMO staff to learn about other model codes and how to get involved. Staff participated in NFPA 30 and NFPA 70 meetings during the reporting period. Staff is advocating for flame mitigation devices in NFPA 30 and ground fault interrupter circuits in NFPA 70.

Meeting(s) Staff met with ICC and IAPMO staff separately to learn which model codes staff may be interested in and how to participate

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 formal communications during the reporting period.

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

Next Action Staff will continue to participate in the various NFPA model codes. As part of the FY2023 Operating Plan, staff will propose to join ICC and IAPMO committees next FY, at the start of the next revision cycle.

Chemical Test Methods

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

Staff Contact Duque, Maricar

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

ASTM D7993-15(2019)	<i>Standard Guide for Analyzing Complex Phthalates</i>
ASTM D8133-21	<i>Standard Test Method for Determination of Low Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry</i>

Standard(s) Update The voluntary standards 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 participate in an Inter-Laboratory Study for ASTM D7823 and ASTM D8133.

Staff participated in the OECD EG meeting 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 formal 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 July 2022, then share results around August 2022. The next subcommittee meeting will be in November 2022. Staff will participate in the EG meeting with the OECD in June 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, 2020 Edition	<i>National Electrical Code</i> ®

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

Relevant Rulemaking N/A

Activities Summary Staff is participating in the development of the next edition to the NEC; the NEC is revised every three years. During the reporting period, staff advocated for requirements for ground fault circuit interrupters and arc fault circuit interrupters to reduce shock and fire hazards. Staff also began participating 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 panels (CMP) 2 and CMP 17 meetings and several task groups during the reporting period.

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

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

Next Action Staff will provide electrocution data and other input to the task group. Staff will monitor for any TIAs and motions made during the NFPA annual meeting in June 2022. 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 of conveying product safety information to consumers, not already covered by another tracked voluntary standard.

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 task group meetings and reviewed Ad Hoc language updates to multiple ASTM standards.

Meeting(s) Staff participated in an ASTM Ad Hoc language task group meeting working on possible revisions to the recommended wording of warnings related to safe sleep for products that are not intended for infant sleep.

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

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

Next Action Staff will participate in the next ASTM Ad Hoc Language task group meeting, scheduled for May 23, 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

UL	Underwriters Laboratories Inc. (Research and standards, nonprofit)
	UL, LLC is a testing and certification laboratory formerly part of Underwriters Laboratories, Inc. but now a legally separate, for profit firm
	STP – Standards Technical Panel
	ORD – Other Recognized Document (pertains to voluntary standards recognized in Canada)
ULC	Underwriters Laboratories of Canada
WCMA	Window Covering Manufacturers Association