



# Memorandum

**DATE:** December 18, 2024

**TO:** The Commission  
Alberta E. Mills, Secretary

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

**FROM:** Jacqueline H. Campbell,  
Voluntary Standards Coordinator  
Office of Risk Reduction

**SUBJECT:** Voluntary Standards Tracking and Access Fiscal Year 2024 Annual Report

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



United States  
**Consumer Product Safety Commission**

Memorandum



United States  
**Consumer Product Safety Commission**

# **Voluntary Standards Tracking and Access Report**

FY 2024 ANNUAL REPORT

October 1, 2023–September 30, 2024

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

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# Introduction

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

## VSTAR Content and Organization

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

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

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

This VSTAR contains a section for each product, product area, or hazard associated with CPSC staff's voluntary standards work that is listed in the FY 2024 CPSC Operating Plan (Op Plan). The FY 2024 Op Plan listed 88 different products, product areas, or hazards for which staff planned to be actively involved in developing voluntary standards during the fiscal year. The voluntary standards covered in this report address potential hazards associated with consumer products

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

found in homes, schools, and recreation areas. More than 40 different staff served as designated representatives (DRs) for the 88 categories outlined in this report.

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

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

Each VSTAR entry includes the following information:

<b>Purpose:</b>	The purpose of staff’s involvement with the voluntary standard(s).
<b>Staff Contact:</b>	The name of staff leading the activity ( <i>i.e.</i> , the DR).
<b>Voluntary Standard(s):</b>	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, revised, or renewed voluntary standards are in <b>bold font</b> . Titles for current voluntary standards are in <i>italics</i> , and titles of draft or potential standards are in plain font (not bold and non-italicized).
<b>Standard(s) Update:</b>	Any updates to the voluntary standards or potential new voluntary standards with staff’s participation.
<b>Relevant Rule:</b>	Any associated CPSC mandatory standard(s), proposed regulation(s), and relevant petitions, regardless of status. This subsection also includes updates to any of the mandatory standard(s), proposed regulations, or petitions noted in the subsection above.
<b>Activities:</b>	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. This section also identifies when staff did not attend any meetings, did not send any documented communication, or there were no ballots. Note that these summaries should not serve as an exhaustive source for

information on meetings or ballots. Contact the SDO for more information.

**Next Action:**

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

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

## Updated Standards

During the reporting period, staff participation in 27 of the operating plan listed activity categories resulted in at least one new or revised voluntary standard that improved safety and was published during the reporting period. These are in fulfillment of Budget Key Metric 2024KM1.2.1. A full list of these standards may be found in Appendix 2. Details regarding the revisions can be found in the applicable product sections of this report. The designations and titles of all voluntary standards that were new, revised, or reapproved during the reporting period are shown in bold font in the applicable activity section.

## Voting and Leadership Roles

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

Staff Name	Date of Approval	New Approval or Renewal	Role	Standards Body and Standard
Smith, T.	June 2023*	Renewal	Voting	ANSI Z535 Safety Colors and Signs
Lee, A.	October 2023	Renewal	Leadership	Electric Fans, UL 507
Kish, C.	October 2023	Renewal	Voting	ASTM F15.18 Bassinets
Harsanyi, S.	October 2023	Renewal	Voting	ASTM F3458 Magnets
DeGrano, F.	January 2024	New	Voting	Play Yards and Non-full-size Cribs, ASTM F406
Kerns, J.	February 2024	New	Voting	ASTM F1967, Infant Bath Seats

Bathalon, S.	February 2024	New	Voting	ASTM WK76767, Computer Drowning Detection
Maling, E.	February 2024	New	Voting	ASTM F08.22, New Tent Flammability Standard
Phillips, K.	March 2024	Renewal	Voting	ASTM F15.19, New Wearable Infant Blanket Standard
Ayers, S.	March 2024	New	Voting	International Fuel Gas Code
Smith, T.	April 2024	Renewal	Voting	ANSI Z535 Committee on Safety Signs and Colors
Mordecai, B.	May 2024	Renewal	Voting	ASTM F963 Toy Safety
Harsanyi, S.	September 2024	Renewal	Voting	ASTM F15.77/F3458 Magnets
Kish, C.	September 2024	Renewal	Voting	ASTM F2194 Standard Consumer Safety Specification for Bassinets and Cradles
Johnson, A.	September	New	Voting	F15.21 on Infant Loungers Subcommittee

# FY 2024 Voluntary Standards Activities Summary

## Children’s Products and Hazards

### Durable Infant and Toddler Products

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

#### Bassinets/Cradles

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

**Staff Contact** Kish, Celestine

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

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

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

Note: 16 CFR part 1218 references the -13 version, with modifications.

On April 16, 2024, the Commission published a Notice of Proposed Rulemaking (NPR) to update the standard (89 FR 27246).



**Activities Summary**

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

**Meeting(s)**

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

**Communication(s)**

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

**Ballot(s)**

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

**Next Action**

Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meeting scheduled in October 2024. Staff is drafting a final rule for Commission consideration.

**Bedside Sleepers**

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**Purpose**

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

**Staff Contact**

Kish, Celestine

**Voluntary Standard(s)**

Designation and current version	Title
ASTM F2906-23	Standard Consumer Safety Specification for Bedside Sleepers

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

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

**Activities Summary** Staff continues to work with the subcommittee on safe sleep issues related to bedside sleepers. During the reporting period, staff provided the subcommittee with summary of incident data.

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

**Communication(s)**

Date	Type	Summary
7/26/2024	Data	Staff provided the subcommittee with a summary of incident data for bedside sleepers from 7/1/2023 through 7/4/2024.
9/9/2024	Data	Staff provided the subcommittee with a summary of incident data for bedside sleepers from 7/21/2022 through 7/4/2024.

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

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

## Booster Seats

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

**Staff Contact** Stewart, Daniel

**Voluntary Standard(s)**

Designation and current version	Title
ASTM F2640-18(2024)	<i>Standard Consumer Safety Specification for Booster Seats</i>

**Standard(s) Update** On August 19, 2024, ASTM published ASTM F2640-18(2024) *Standard Consumer Safety Specification for Booster Seats*, a renewal of the standard.

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

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**Rule**

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

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

**Communication(s)**

Date	Type	Summary
5/22/2024	Data	Staff provided the subcommittee with a summary of incident data for booster seats from 12/16/2022 through 11/2/2023.

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
July 2024	ASTM F2640	Ballot F15(24-13), item 7, proposed renewal of the standard. The item passed.

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

**Carriages and Strollers**

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

**Staff Contact** Talcott, Kristen

**Voluntary Standard(s)**

Designation and current version	Title
ASTM F833-21	Standard Consumer Safety Specification for Carriages and Strollers

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

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

**Activities Summary** Staff continues to work with the ASTM F15.17 subcommittee to address safety issues related to carriages and strollers. During the reporting period, staff participated in a subcommittee meeting.

Meeting(s) Staff participated in a subcommittee meeting to discuss incident data. Two task groups were formed for data review and test method/standard clarification. Staff suggested that the subcommittee address non-occupant hazards, including neck entrapment on the frame and finger amputation in the wheel assembly, hazards that were identified in two CPSC recalls.

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

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

**Next Action** Staff will participate in the upcoming subcommittee meeting scheduled October 2024.

### Changing Products

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

**Staff Contact** Mella, Lawrence

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.18 subcommittee on safety issues related to baby changing products. During the reporting period, staff provided incident data to the subcommittee and requested a meeting to discuss the data.

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

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	8/26/2024	Data	Staff provided the subcommittee with an incident data spreadsheet for changing products from 2/28/2019 through 2/23/2024.

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

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**Next Action** Staff will participate in the next task group or subcommittee meeting, scheduled for October 2024.

## Children’s Folding Chairs and Stools

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

**Staff Contact** Gordon, Bradley

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

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

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

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

**Meeting(s)** Staff participated in subcommittee meetings, where the focus has been on establishing new requirements for standing towers and addressing CPSC concerns about step stool coverage. Staff participated in several task group meetings on “standing tower” products where the task group is working to create separate standards to cover these products. On September 24 and 25, 2024, CPSC hosted a step stools and standing tower task group meeting to review the draft standard and evaluate requirements against actual products.

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	1/24/2023	Data	Staff provided the subcommittee with a spreadsheet of incident data for standing

	towers and step stools from 1/1/2013 through 12/31/2023.
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**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
April 2024	ASTM F2613	Ballot F15(24-04), item 1, proposed revision of the scope section of the standard to remove the explicit exclusion of children’s step stools. The item received several persuasive negatives and was removed from the ballot.

**Next Action**

Staff will participate in upcoming subcommittee meetings in October 2024.

**Commercial Cribs**

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**Purpose**

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

**Staff Contact**

Taxier, Daniel

**Voluntary Standard(s)**

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

**Standard(s) Update**

The voluntary standard was not updated during the reporting period.

**Relevant Rule**

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

**Activities Summary**

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

**Meeting(s)**

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

**Communication(s)**

Date	Type	Summary
11/21/2023	Data	Staff provided the subcommittee with incident data for commercial cribs from 8/21/2018 through 11/7/2023.

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

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

### Crib Mattresses (including Supplemental and After-market Mattresses)

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

**Staff Contact** Taxier, Daniel

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.66 subcommittee on safe sleep issues related to crib mattresses. During the reporting period, staff participated in subcommittee and task group meetings and provided feedback on a draft ballot for ad hoc language updates.

**Meeting(s)** Staff participated in a subcommittee meeting, where task group status was reported, and in mattress surface firmness task group meetings.

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

<b>Ballot(s)</b>	<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	September 2024	ASTM F2933	Ballot F15(24-18), items 15-19, proposed revision of the standard to align with 16 CFR part 1241. The items covered ad hoc language, corner gap requirement, firmness, impact durability, and hyphenation of terms, respectively. The ballot was still open at the end of the reporting period.

**Next Action** Staff will participate in the upcoming subcommittee meeting scheduled October 2024.

### Frame Child Carriers

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

**Staff Contact** Taxier, Daniel

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.21 subcommittee on safety issues related to frame child carriers. During the reporting period, staff provided the subcommittee with a summary of annual incident data.

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

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	9/10/2024	Data	Staff provided the subcommittee with a summary of incident data for frame child carriers from 6/8/2023 through 6/20/2024.

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

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

### Full-Size Cribs

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**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.



<b>Staff Contact</b>	Taxier, Daniel				
<b>Voluntary Standard(s)</b>	<table border="1"> <thead> <tr> <th>Designation and current version</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>ASTM F1169-19</td> <td><i>Standard Consumer Safety Specification for Full-Size Cribs</i></td> </tr> </tbody> </table>	Designation and current version	Title	ASTM F1169-19	<i>Standard Consumer Safety Specification for Full-Size Cribs</i>
Designation and current version	Title				
ASTM F1169-19	<i>Standard Consumer Safety Specification for Full-Size Cribs</i>				
<b>Standard(s) Update</b>	The voluntary standard was not updated during the reporting period.				
<b>Relevant Rule</b>	16 CFR part 1219, <i>Safety Standard for Full-Size Cribs</i>				
<b>Activities Summary</b>	Staff continues to work with the ASTM F15.18 subcommittee and related task groups on safe sleep issues, including full size cribs. During the reporting period, staff provided feedback to the subcommittee on ad hoc language changes in ASTM F2933 that related to crib entrapments.				
<b>Meeting(s)</b>	No meetings related to relevant standards or topics took place during the reporting period.				
<b>Communication(s)</b>	There were no formal communications during the reporting period.				
<b>Ballot(s)</b>	There were no relevant ballots during the reporting period.				
<b>Next Action</b>	Staff will participate in any upcoming subcommittee meetings, when scheduled.				

### Gates and Expandable Enclosures

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<b>Purpose</b>	To work with ASTM on revising the voluntary standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with expansion gates and expandable enclosures.				
<b>Staff Contact</b>	Torres, Carlos				
<b>Voluntary Standard(s)</b>	<table border="1"> <thead> <tr> <th>Designation and current version</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>ASTM F1004-23</td> <td><i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures</i></td> </tr> </tbody> </table>	Designation and current version	Title	ASTM F1004-23	<i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures</i>
Designation and current version	Title				
ASTM F1004-23	<i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures</i>				
<b>Standard(s) Update</b>	The voluntary standard was not updated during the reporting period.				
<b>Relevant</b>	16 CFR part 1239, <i>Safety Standard for Gates and Enclosures</i>				

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**Rule** Note: 16 CFR part 1239 references the -22 version.

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

**Meeting(s)** Staff participated in subcommittee meetings to discuss issues and task group progress related to gates with pet doors and third-party accessory concerns and retractable gates. Staff also participated in task group meetings to discuss expansion gates with pet doors and retractable gates.

**Communication(s)**

Date	Type	Summary
9/23/2024	Data	Staff provided the subcommittee with a summary of incident data for expansion gates and expandable enclosures from 5/4/2023 through 5/4/2024.

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

**Next Action** Staff will participate in upcoming subcommittee meetings in October 2024.

### Hand-Held Infant Carriers

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

**Staff Contact** DeGrano, Frederick

**Voluntary Standard(s)**

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.21 subcommittee to address hazards associated with hand-held infant carriers. During the reporting period, staff engaged the subcommittee on firmness requirements for hand-held carriers. Staff provided the subcommittee with incident data and participated in subcommittee and data task group meetings.

**Meeting(s)** Staff participated in subcommittee meetings where concerns about overlapping requirements for firmness in hand-held carriers and car seats were discussed as well as the status of existing task groups. Staff also participated in a task group meeting to review the incident data for these products and identify any emerging hazard patterns that could be addressed with performance requirements.

**Communication(s)**

Date	Type	Summary
11/14/2023	Letter	Staff requested a meeting of the F15.21 Infant Carriers Subcommittee to discuss potential firmness requirements.
5/6/2024	Data	Staff provided an updated spreadsheet for the incident data provided in Spring 2023.
9/19/2024	Data	Staff provided the subcommittee with a summary of incident data for hand-held carriers from 6/11/2023 through 6/11/2024.

**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

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

**Staff Contact** Marques, Stefanie

**Voluntary Standard(s)**

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.16 subcommittee on improving safety of high chairs. During the reporting period, staff

participated in a subcommittee meeting and provided the subcommittee with incident data.

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

**Communication(s)**

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

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

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

## Infant Bath Seats

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

**Staff Contact** Kerns, Julia

**Voluntary Standard(s)**

Designation and current version	Title
ASTM F1967-24	<i>Standard Consumer Safety Specification for Infant Bath Seats</i>

**Standard(s) Update** On July 8, 2024, ASTM notified CPSC of the latest revision to the standard, ASTM F1967-24 *Standard Consumer Safety Specification for Infant Bath Seats*. This revision includes updates and clarification on the testing surface.

**Relevant Rule** 16 CFR part 1215, *Safety Standard for Infant Bath Seats*  
On September 17, 2024, the Commission voted to accept ASTM F1967-24 as the new mandatory standard. The standard had not published in the Federal Register by the end of the reporting period.

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

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

**Communication(s)**

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

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2023	ASTM F1967	Ballot F15(23-15), item 1, proposed to clarify the Stability Test Procedure to ensure it is clear that bath seats intended to contact the floor of the test platform are to be tested on both testing surface #1 and #2. The item passed.
May 2023	ASTM F1967	Ballot F15(24-06), item 6, changed the specifications for the test surface. The ballot passed.

**Next Action** Staff will participate in the next ASTM subcommittee meeting in October 2024. CPSC’s revised mandatory standard incorporating by reference ASTM F1967-24 will publish in the Federal Register.

**Infant Bath Tubs**

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

**Staff Contact** Foster, Zachary

**Voluntary Standard(s)**

Designation and current version	Title
ASTM F2670-22	Standard Consumer Safety Specification for Infant Bath Tubs

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

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

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

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

**Communication(s)**

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

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

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

## Infant Bouncer Seats

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

**Staff Contact** Wanna-Nakamura, Suad

**Voluntary Standard(s)**

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.21 subcommittee to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant

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

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

**Communication(s)**

Date	Type	Summary
11/3/2023	Data	Staff provided the subcommittee with a summary of the annual incident data related to bouncer seats from 3/10/2022 to 4/6/2023.
7/29/2024	Data	Staff provided the subcommittee with a summary of the annual incident data related to bouncer seats from 4/6/2023 to 4/15/2024.

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

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

## Infant Swings

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

**Staff Contact** Torres, Carlos

**Voluntary Standard(s)**

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

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

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

On May 30, 2024, the Commission published the direct final rule 16 CFR part 1223, *Safety Standard for Infant Swings* (89 FR 11792) with an effective date of September 14, 2024.

**Activities Summary**

Staff continues to work with the ASTM F15.21 subcommittee on strangulation and head entrapment hazards on tethered straps. During the reporting period, staff participated in subcommittee and task group meetings on strangulation hazards, warnings, and data, provided data to the subcommittee, delivered a briefing package to the Commission, and notified ASTM of the rule update.

**Meeting(s)**

Staff participated in subcommittee and task group meetings on strangulation hazards related to tethered straps, safe sleep warnings, and incident data.

**Communication(s)**

Date	Type	Summary
11/21/2023	Data	Staff provided the subcommittee with a spreadsheet of incident data for the period 8/8/2017 through 10/31/2023.
7/18/2024	Letter	Staff notified ASTM that the Commission accepted the revised voluntary standard and published a direct final rule.
9/6/2024	Data	Staff provided the subcommittee with a summary of the annual incident data related to infant swings from 5/8/2023 to 5/2/2024.

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
November 2023	ASTM F2088	Ballot F15(23-17), item 7, proposed to update the requirement and test methods for tethered straps and bounded openings. The item passed.
April 2024	ASTM F2088	Ballot F15(24-05), item 2, proposed to add tolerances to the neck cylinder test fixture. The item had a persuasive negative and was removed from the ballot.

**Next Action**

Staff will participate in upcoming subcommittee meetings in October 2024.

**Infant Walkers**

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**Purpose**

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

**Staff Contact**

Mordecai, Ben



**Voluntary Standard(s)**

Designation and current version	Title
ASTM F977-22	Standard Consumer Safety Specification for Infant Walkers

**Standard(s) Update**

The voluntary standard was not updated during the reporting period.

**Relevant Rule**

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

**Activities Summary**

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

**Meeting(s)**

Staff participated in a subcommittee meeting where the recently updated standard was discussed, and the chair requested incident data from the CPSC.

**Communication(s)**

Date	Type	Summary
9/9/2024	Data	Staff provided the subcommittee with a summary of the annual incident data related to infant walkers from 3/2/2023 to 3/12/2024.

**Ballot(s)**

There were no ballots during the reporting period.

**Next Action**

Staff will participate in upcoming subcommittee meetings, scheduled for October 2024.

**Non-Full-Sized Cribs and Play Yards**

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**Purpose**

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

**Staff Contact**

DeGrano, Frederick

**Voluntary Standard(s)**

Designation and current version	Title
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<b>ASTM F406-24</b>	<b><i>Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards</i></b>
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**Standard(s)  
Update**

On September 18, 2024, ASTM published the revised standard ASTM F406-24 *Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards*. The revision included updated warnings and Ad Hoc Subcommittee language, updated accessories definitions, and removal of mattress thickness requirements to align the voluntary standard with the federal regulation. CPSC had not yet been notified of the revision at the end of the reporting period.

**Relevant  
Rule**

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

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

**Activities  
Summary**

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

**Meeting(s)**

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

**Communication(s)**

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

**Ballot(s)**

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
November 2023	ASTM F406	Ballot F15(23-17), item 13, proposed changes to the marking and labeling requirements in the standard, including ad

		hoc language recommendations. The item was approved.
February 2024	ASTM F406	Ballot F15(24-01), item 1, proposed definitions and requirements to allow for padded floors in play yards. The item received negative votes and was removed from the ballot.
March 2024	ASTM F406	Ballot F15(24-05), item 3, proposed updates to definitions and warning label requirements pertaining to the strangulation hazard associated with accessories for non-full-size cribs and play yards. The item was approved.
September 2024	ASTM F406	Ballot F15(24-17), item 2, proposes performance tests for certain products with resilient material and segmented supports, as well as other updates. The item was not resolved at the end of the reporting period.

**Next Action** Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting, scheduled in October 2024. Once notified, staff will begin drafting a briefing package on the revised standard for Commission consideration.

### Portable Bed Rails (Children’s)

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

**Staff Contact** Taxier, Daniel

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.11 subcommittee to improve the safety of children’s portable bedrails. During the reporting period, staff provided the subcommittee with a summary of annual incident data.

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

**Communication(s)**

Date	Type	Summary
9/23/2024	Data	Staff provided the subcommittee with a summary of the annual incident data related to children’s portable bed rails from 4/5/2023 to 4/5/2024.

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

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

### Portable Hook-On Chairs

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

**Staff Contact** Mella, Lawrence

**Voluntary Standard(s)**

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

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

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

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

**Meeting(s)** Staff participated in subcommittee meetings to discuss incident data and ad hoc language.

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

<b>Ballot(s)</b>	<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	October 2024	ASTM F1235	Ballot F15(24-18), item 6, proposed updates to ad hoc wording. The ballot was still open at the end of the reporting period.

**Next Action** Staff will provide annual summary of incident data and participate in the next ASTM subcommittee meeting scheduled October 2024.

### Sling Carriers (Infant and Toddlers)

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

**Staff Contact** Foster, Zachary

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.21 subcommittee on sling carrier products. During the reporting period, staff provided feedback to the subcommittee chair on carrier-related data in the nursery products annual report.

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

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

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

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

### Soft Infant and Toddler Carriers

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

**Staff Contact** Foster, Zachary

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	<b>ASTM F2236-24</b>	<b><i>Standard Consumer Safety Specification for Soft Infant and Toddler Carriers</i></b>

**Standard(s) Update** On August 26, 2024, ASTM provided notification to CPSC of the latest revision to the standard, ASTM F2236-24, *Standard Consumer Safety Specification for Soft Infant and Toddler Carriers*. This revision includes revisions to clarify fastener strength and strap retention performance requirements, unbounded leg opening test, flammability requirements, Ad-Hoc revisions to marking and labeling requirements, and revisions to required warning language.

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

**Activities Summary** Staff continues to work with the ASTM F15.21 subcommittee on soft infant and toddler carrier products. During the reporting period, staff participated in a subcommittee meeting and reviewed the approved revised standard. Staff also evaluated the revised standard ASTM F2236-24 and began preparing its recommendation to the Commission regarding the incorporation by reference of the revised standard.

**Meeting(s)** Staff participated in a subcommittee meeting where task groups were reopened for Leg Openings and Labeling and Fastener Strength and Strap Retention/Dynamic Test Re-Work. Previously balloted items were also moved forward to revise the standard.

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

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

**Next Action** Staff will participate in the next ASTM subcommittee meeting, when scheduled. Staff will develop and deliver its recommendation to the Commission regarding incorporating by reference ASTM F2236-24.

## Stationary Activity Centers

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

**Staff Contact** Gordon, Bradley

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.17 subcommittee on stationary activity centers. During the reporting period, staff reviewed a ballot and provided feedback on a new requirement for cyclic testing.

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

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

<b>Ballot(s)</b>	<b>Date Closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	November 2023	ASTM F2012	Ballot F15(23-17), item 6, proposed to have exemplar label layouts to display paragraph formats in the standard to complement the current standard warning language. The item was unresolved at the end of the reporting period.
	August 2024	ASTM F2012	Ballot F15(24-14), item 3, proposed updates to ad hoc language. The ballot was unresolved at the end of the reporting period.

**Next Action** Staff will participate in the next subcommittee meeting, scheduled October 2024.

## Toddler Beds

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

**Staff Contact** Taxier, Daniel

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.18 subcommittee on toddler beds. During the reporting period, staff provided the subcommittee with incident data and requested that the subcommittee consider including Montessori beds in scope of the standard.

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

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	9/18/2024	Data	Staff provided the subcommittee with a summary of the annual incident data related to toddler beds from 7/3/2023 to 7/15/2024.

<b>Ballot(s)</b>	<b>Date Closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	July 2024	F1821	Ballot F15.19(23-04), item 4, proposed renewal of the standards. There were two negatives. The item was unresolved at the end of the reporting period.

**Next Action** Staff will participate in the next ASTM subcommittee meeting, scheduled October 2024.



## Other Children’s Products and Hazards

### Child-Resistant Packages (CRP)

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**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** Burns, Samantha

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	<b>ASTM D3474-23</b>	<b><i>Standard Practice for Calibration and Use of Torque Meters Used in Packaging Applications</i></b>
	ASTM D3475-20	<i>Standard Classification of Child-Resistant Packages</i>
	ASTM D7860 – 14 (2022)	<i>Standard Test Methods for Measurement of Torque Retention for Child Resistant and Non-Child Resistant Packages with Continuous Thread Closures Using Automated Torque Testing Equipment</i>

**Standard(s) Update** On November 7, 2023, ASTM published ASTM D3474-23 *Standard Practice for Calibration and Use of Torque Meters Used in Packaging Applications*. The revisions included changes to a definition and editorial updates.

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

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

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

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

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

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

**Infant Bedding**

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

**Staff Contact** Johnson, Ashley

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

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

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

**Activities Summary** Staff continues to work with the ASTM F15.12 and F15.19 subcommittees on infant bedding. Staff participated in infant bedding subcommittee and rebreathing task group meetings during the reporting period.

**Meeting(s)** Staff participated in a subcommittee meeting focused on activity related to the Methods for the Measuring Re-Breathing task group (TG), which is developing standard test methods to assess the firmness, airflow resistance, and carbon dioxide (CO<sub>2</sub>) rebreathing of various infant products. Staff participated in multiple rebreathing task group meetings during the reporting period, contributing to the development of a firmness test method. Additionally, the subcommittee approved moving the F15.19 Ad Hoc Juvenile Product Firmness and Breathability Task Group to F15.12 Firmness and Breathability for Juvenile Products.

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

<b>Ballot(s)</b>	<b>Date Closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>

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

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

### Gasoline Containers, Child Resistance

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**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 the poisoning of children from gasoline from portable fuel containers.

**Staff Contact** Ayers, Scott

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

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

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

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

**Meeting(s)** Staff participated in a subcommittee meeting and recommended that a task group form at the two-year mark from the revised standard and review incident data.

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

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

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

### Infant Bathers

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

**Staff Contact** Komarov, Andrei

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	<b>ASTM F3343-20(2024)</b>	<b>Standard Consumer Safety Specification for Infant Bathers</b>

**Standard(s) Update** The voluntary standard was reapproved during the reporting period.

**Relevant Rule** N/A

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

**Meeting(s)** Staff participated in a subcommittee to review incident data and warnings.

**Communication(s)**

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

**Ballot(s)**

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
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August 2024	ASTM F3343	Ballot F15(24-13), item 3, proposed a reapproval of the standard. The item was approved.
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**Next Action** Staff will participate in upcoming subcommittee meetings, when scheduled.

## Infant Support Cushions

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**Purpose** To work with ASTM on developing a voluntary standard to establish safety provisions and to ensure that the developing voluntary standard and the corresponding developing federal mandatory standard maintain adequate safety levels addressing hazards associated with infant support cushions.

**Staff Contact** Johnson, Ashley

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	ASTM WK82078	Potential new voluntary standard for Infant Loungers

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

**Relevant Rule** On January 16, 2024, the Commission published an NPR for a *Safety Standard for Infant Support Cushions* [89 FR 2530]. On April 23, 2024, the Commission published a notice of availability and request for comment (NOA) for *Data Regarding Incidents Associated With Infant Support Cushions* [89 FR 30295]. On September 25, 2024, staff delivered a draft final rule briefing package to the Commission for consideration.

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

**Meeting(s)** During the reporting period, staff attended subcommittee and scope, warnings, data analysis, and performance task group meetings. The task groups worked on issues such as products covered by the standard, specific product warnings, and side height, incline angle, and firmness as well as reviewing incident data.

<i>Communication(s)</i>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	4/29/2024	Letter	Staff provided the subcommittee with comments on ballot F15.21(24-01).

<i>Ballot(s)</i>	<b>Date Closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	April 2024	WK82078	Ballot F15.21(23-01), item 1, proposed a new safety standard for infant loungers. There were multiple negatives and comments, and the item was removed from the ballot.

**Next Action** Staff will participate in upcoming subcommittee meetings in October 2024. The Commission will consider the draft final rule.

## Infant Rockers

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

**Staff Contact** Foster, Zachary

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

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

**Relevant Rule** On October 26, 2023, the Commission published an NPR for a new regulation, 16 CFR part 1240, *Safety Standard for Infant and Infant/Toddler Rockers* [88 FR 73551]. On August 22, 2024, the Commission published a notice of availability and request for comment (NOA) for *Safety Standard for Infant and Infant/Toddler Rockers; Supplemental Information* [89 FR 67917]. Staff is drafting a final rule briefing package for Commission consideration.

**Activities Summary**

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

**Meeting(s)**

Staff participated in subcommittee meetings where ballot items were discussed. Additionally, CPSC staff provided an overview of the NPR.

**Communication(s)**

There were no formal communications during the reporting period.

**Ballot(s)**

Date Closed	Voluntary Standard	Summary and Results (If Applicable)
November 2023	ASTM F3084	Ballot F15(23-17), item 8, proposed revisions to terminology, performance requirements, and warning requirements to allow infant/toddler rockers to provide a means of storing restraints. This item passed.
November 2024	ASTM F3084	Ballot F15(23-17), item 9, proposed performance requirements for battery compartments and a battery leakage test. This item passed.
November 2023	ASTM F3084	Ballot F15(23-17), item 10, proposed revisions to the forward stability test, as well as revisions to the terminology to add weight limits to the definitions of infant rocker and infant/toddler rocker. This item passed.
March 2024	ASTM F3084	Ballot F15(24-05), item 1, proposed performance requirements and a test method to evaluate tethered straps. This item received four comments and one administrative negative and was unresolved at the end of the reporting period.
October 2024	ASTM F3084	Ballot F15(24-18), item 7 proposed removing the tolerances on the neck cylinder. The ballot was still open at the end of the reporting period.

**Next Action**

Staff will participate in the next ASTM subcommittee meeting, scheduled for October 2024. Staff will deliver a final rule briefing package for Commission consideration.

**Nursing Support Products**

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**Purpose**

To work with ASTM on developing a voluntary standard to establish safety provisions and to ensure that the developing voluntary standard and the

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corresponding developing federal mandatory standard maintain adequate safety levels addressing hazards associated nursing support products.

**Staff Contact** Smith, Timothy

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	ASTM F3669-24	<i>Standard Consumer Safety Specification for Nursing Pillows</i>

**Standard(s) Update** On September 12, 2024, ASTM published the new *Standard Consumer Safety Specification for Nursing Pillows*.

**Relevant Rule** On September 18, 2024, the Commission voted to publish an FR for 16 CFR part 1242 *Safety Standard for Nursing Pillows*. At the end of the reporting period, it had not yet been published in the Federal Register. The rule contains many similarities to the ASTM standard but is more protective of child safety.

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

**Meeting(s)** Staff attended numerous subcommittee and task group meetings for nursing pillows, contributing to task groups on scope, warning requirements, and performance requirements.

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	1/16/2024	Letter	Staff provided the subcommittee with comments on ballot F15(23-20).
	5/15/2024	Letter	Staff provided the subcommittee with comments on ballot F15(24-08).

<b>Ballot(s)</b>	<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	January 2024	ASTM WK82241	Ballot F15(23-20), item 2, proposed the new standard for infant feeding supports. The item received multiple negatives and was removed from the ballot.
	May 2024	ASTM WK82241	Ballot F15(24-08), item 1, proposed the new standard for infant feeding supports. The item



		received multiple negatives and was removed from the ballot.
August 2024	ASTM WK82241	Ballot F15(24-14), item 1, proposed the new standard for infant feeding supports. The item was approved.

**Next Action** Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meetings, scheduled in October 2024. The Commission will publish the final rule.

## Toys

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**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

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	<b>ASTM F963-23</b>	<b><i>Standard Consumer Safety Specification for Toy Safety</i></b>
	ASTM D8133-23	<i>Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction-Gas Chromatography/Mass Spectrometry</i>
	ASTM F1313-90 (2011)	<i>Standard Specification for Volatile N-Nitrosamine Levels in Rubber Nipples on Pacifiers</i>

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

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

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

On August 13, 2024, the Commission published an NPR *Safety Standard for Toys: Requirements for Toys Containing Button Cell or Coin Cell Batteries* [89 FR 65791] with comments due October 15, 2024.

On August 13, 2024, the Commission published an NPR *Safety Standard for Toys: Requirements for Water Beads* [89 FR 73024] with comments due November 8, 2024.

On September 25, 2024, staff delivered an NPR briefing package under section 106 of the CPSIA for Commission consideration for requirements for neck floats.

**Activities  
Summary**

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

Staff is working with the ASTM D20.70 subcommittee to review the status of several analytical methods. Staff participated in an interlaboratory study (ILS) for ASTM D8133-23 in FY23. The purpose of the ILS is to determine the Precision and Bias statement for ASTM D8133-23 (both Methods A and B). Both the data obtained and a draft P&B statement from the ILS were presented and reviewed on 4/10/24. Minor adjustments will be made to the draft P&B statement prior to balloting.

**Meeting(s)**

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

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

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

<i>Communication(s)</i>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	11/28/2023	Letter	Staff made recommendations to the subcommittee on water bead requirements and provided additional information on incident data and potential toxicity.
	1/19/2024	Letter	Staff provided answers on incidents, testing, and toxicity to the subcommittee asked in response to the November 2023 letter.
	8/19/2024	Letter	Staff provided comments on ballot F15.22(24-01), item 1.
	9/27/2024	Letter	Staff provided details on a magnet-related ingestion incident and the redacted IDI to the F15.22 and F15.77 subcommittees.

<i>Ballot(s)</i>	<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	August 2024	ASTM F963	Ballot F15.22(24-01), item 1, proposed new requirements for water beads within F963. The item received multiple negatives and was unresolved at the end of the reporting period.

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

## Wearable Infant Blankets

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

**Staff Contact** Phillips, Khalisa

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	ASTM WK81176	New Standard Consumer Safety Specification for Wearable Sleep Products for Infants and Toddlers

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

**Relevant Rule** N/A

**Activities Summary** Staff continues working with ASTM to address unresolved negative votes on the draft standard to address suffocation, strangulation, and other potential hazards associated with wearable blankets (sleep sacks), swaddles, and wearable products used by infants and toddlers during sleep. During the reporting period, staff participated in multiple subcommittee and task group meetings, reviewed three ballot items and responded with two letters, and provided incident data and in-depth investigation reports. Staff provided extensive feedback on performance requirements and test methods. To help inform the subcommittee of products on the market, staff presented a market scan of products potentially subject to the draft standard to better understand the range of designs, textiles used, and types of fill materials to add warmth, and / or weighted features.

**Meeting(s)** Staff participated in multiple subcommittee and task group meetings to continue developing a draft standard for ballot. The meetings focused on scope, performance requirements, data, and warnings. One in-person task group meeting was held to develop performance requirements and test methods for swaddles at CPSC/NPTEC. The subcommittee voted to broaden the title of the standard from wearable infant blankets and swaddles to wearable sleep products. Staff participated in extensive discussions regarding weighted wearable infant sleep products and their safety.

**Communication(s)**

Date	Type	Summary
10/02/2023	Letter	Staff voted negative and provided comments on administrative ballot F15.19(23-02), item 1.
11/16/2023	Letter	Staff voted negative and provided comments on ballot F15.19(23-03).
1/10/2024	Data	Staff provided the subcommittee with an IDI involving a weighted swaddle wrap.
7/1/2024	Data	Staff provided updated wearable infant blanket incident data to the data task group and included an explanation of the search methodology.
9/20/2024	Data	Staff provided three IDIs to the data task group.

**Ballot(s)**

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
November 2023	WK81176	Ballot F15.19(23-03) proposed the new standard. The ballot item received many negatives and comments. The item was removed from the ballot.
May 2024	WK81176	Ballot F15.19(24-01) proposed the new standard. The ballot item received many negatives and comments and was removed from the ballot.
October 2024	WK81176	Ballot F15(24-18), item 2, proposed the new standard. The ballot item received many negatives and comments. The ballot was still open at the end of the reporting period.

**Next Action**

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

**Weighted Blankets (Ages 3+)**

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**Purpose**

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

**Staff Contact**

Wanna-Nakamura, Suad

**Voluntary Standard(s)**

<b>Designation and current version</b>	<b>Title</b>
ASTM WK	New Standard Consumer Safety Specification for Weighted Blankets

**Standard(s) Update**

The voluntary standard was under development during the reporting period.

**Relevant Rule**

N/A

**Activities Summary**

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

**Meeting(s)** Staff participated in subcommittee meetings to discuss the status and outcomes of the ballot.

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

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
June 2024	WK81176	Ballot F15(24-10), item 1, proposed the new standard. The ballot item received many negatives and comments. The item was removed from the ballot.

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

## Emerging Technology

### Additive Manufacturing/3D Printing

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

**Staff Contact** Goldstein, Zachary

**Voluntary Standard(s)**

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

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

**Relevant Rule** N/A

**Activities Summary** Staff continues to participate in working and task groups focused on addressing the potential health and safety implications of additive manufacturing. During the reporting period, staff shared links to reports that may inform the safety effort related to these products and that the CPSC staff contact is changing.

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

<i>Communication(s)</i>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	9/27/2023	Email	Staff notified ULSE of relevant reports and a change in staff contact.

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

**Next Action** Staff will continue to participate in meetings to work on enhancements to the standards.

## Artificial Intelligence

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**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

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

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

**Relevant Rule** N/A

**Activities Summary** CPSC staff continues to identify opportunities to improve the safety of consumer products that use artificial intelligence (AI) and related technologies such as machine language (ML). During the reporting period, staff participated in multiple ASTM F15.75 subcommittee and task group meetings. Staff also met with Samsung to see demonstrations of AI/ML used in consumer products and discussed standards requirements for these products. Additionally, staff participated in a multi-agency “EnforcerCON” sponsored by the Consumer Financial Protection Bureau and an Organization for Economic Co-operation and Development workshop discussing AI/ML, and Connected Products issues, trends, and standards activities.

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

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

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

**Next Action** Staff plans to participate in the next UL STP 4600 and ASTM F15.75 meetings. Staff will continue to monitor and participate in other applicable voluntary standards, federal agency, industry, partner workshops and CPSC projects.

### Internet of Things (IoT)/Connected Products

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

**Staff Contact** Lee, Simon

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	UL 5500, 1st Edition	<i>Remote Software Updates</i>
	<b>UL 2900-1, 1st Edition</b>	<b><i>Software Cybersecurity for Network-Connectable Devices</i></b>
	<b>ASTM F3463-24</b>	<b><i>Standard Guide for Ensuring the Safety of Connected Consumer Products</i></b>

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

On September 10, 2024, ASTM published ASTM F3463-24 *Standard Guide for Ensuring the Safety of Connected Consumer Products*. The revisions included various topics concerning AI/ML, such as use of Computer Vision and Natural Language Processing in connection with consumer product safety concerns.

**Relevant Rule** N/A

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



**Meeting(s)** Staff participated in multiple ASTM F15.75 Connected Products subcommittee and task group meetings focused on AI/ML. The subcommittee is looking at AI and how it could be implemented in the current ASTM F3463-21, *Standard Guide for Ensuring the Safety of Connected Consumer Products*. The ASTM F3463 TGs also discussed various topics such as possible interoperability, hierarchy, and different ecosystem safety concerns

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

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
June 2024	ASTM F3463	Ballot F15(24-12), item 6, proposed revisions to address AI/ML considerations. The item passed.

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

## Nanotechnology

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

**Staff Contact** Matheson, Joanna

**Voluntary Standard(s)**

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

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

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

**Relevant Rule** N/A

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

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

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

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

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

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

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

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

**Staff Contact** Goldstein, Zachary

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	<b>ANSI/CAN/UL 3300</b>	<b>Service, Communication, Information, Education and Entertainment Robots - SCIEE Robots</b>

**Standard(s) Update** On May 14, 2024, ULSE published the new standard ANSI/CAN/UL 3300 *Service, Communication, Information, Education and Entertainment Robots - SCIEE Robots*.

**Relevant Rule** N/A

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

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

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

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
January 2024	UL 3300	Initial round of ballot and commenting on the proposed final draft. The ballot was passed to the next level.
April 2024	UL 3300	Recirculation ballot to review changes made in response to comments on earlier ballot. The standard was approved and published.

**Next Action** Staff will continue to monitor STP meetings.

## Wearables

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

**Staff Contact** Thomas, Treye

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

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

**Relevant Rule** N/A

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

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

In the task group on skin compatibility, staff has advocated for requirements that address biocompatibility risks other than skin sensitization, such as inhalation of toxic compounds.

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

*Ballot(s)*

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
July 2024	UL 8400	Ballot for second addition of the standard to address safety and warning instructions. The ballot had comments to be addressed.
October 2024	UL 8400	Recirculated ballot for second addition of the standard to address safety and warning instructions. The ballot was still open at the end of the reporting period.

**Next Action**

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

## Home Products and Hazards

### Adult Portable Bed Rails

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**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)**

<b>Designation and current version</b>	<b>Title</b>
<b>ASTM F3186-24</b>	<b><i>Standard Specification for Adult Portable Bed Rails and Related Products</i></b>

**Standard(s) Update**

In March 2024, ASTM published the revised ASTM F3186-24. Revisions included definitions and editorial changes. The revisions do not harmonize the voluntary standard with 16 CFR part 1270.

**Relevant Rule**

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

**Activities Summary**

Staff continues to work with the ASTM F15.70 subcommittee to improve the safety of adult portable bedrails. During the reporting period, staff worked with the subcommittee chair to get the balloted changes to the standard published.

**Meeting(s)**

No meetings related to relevant standards or topics took place during the reporting period.

**Communication(s)**

There were no formal communications during the reporting period.

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

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

### Bath Tubs (Adult)

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

**Staff Contact** Gordon, Bradley

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

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

**Relevant Rule** N/A

**Activities Summary** Staff continues to work with the ASTM F15.03 subcommittee to develop a new standard that addresses slip and fall hazards in bath tubs and shower surfaces. During the reporting period, staff participated in subcommittee meetings. On September 25, 2024, CPSC awarded a contract to Arizona State University (ASU) to conduct a human slip study of participants stepping in and out of 3 exemplar bathtubs. Depending on the length of the OMB approval process, staff expects the findings to be delivered in by the end of 2025.

**Meeting(s)** Staff participated in subcommittee meetings focused on reinstating and revising the standard.

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

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

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

### Batteries, Fire (High-Energy Density)

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

**Staff Contact** Kadiwala, Jay

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	UL 1642, 6 <sup>th</sup> Edition	<i>Standard for Safety for Lithium Batteries</i>
	<b>UL 2272, 2<sup>nd</sup> Edition</b>	<b><i>Standard for Electrical Systems for Personal E-Mobility Devices</i></b>
	UL 2849, 1 <sup>st</sup> Edition	<i>Standard for Electrical Systems for e-Bikes</i>
	UL 9540, 2 <sup>nd</sup> Edition	<i>Standard for Energy Storage Systems and Equipment</i>
	UL 9540A, 1 <sup>st</sup> Edition	<i>Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems</i>
	ANSI/CAN/UL 2056	<i>Standard for Power Banks</i>
	UL 2054, 3 <sup>rd</sup> Edition	<i>Household and Commercial Batteries</i>
	UL 60086-4, 1 <sup>st</sup> Edition	<i>Standard for Safety of Primary Batteries, Part 4: Safety of Primary Batteries</i>
	UL 62133, 1 <sup>st</sup> Edition	<i>Secondary Cells and Batteries Containing Alkaline and Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications</i>
	UL 62133-1, 1 <sup>st</sup> Edition	<i>Secondary Cells and Batteries Containing Alkaline and Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications, Part 1: Nickel Systems</i>
	UL 62133-2, 1 <sup>st</sup> Edition	<i>Secondary Cells and Batteries Containing Alkaline and Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications, Part 2: Lithium Systems</i>
	UL 2271, 3 <sup>rd</sup> Edition	<i>Batteries for Light Electric Vehicle (LEV) Applications</i>

**Standard(s) Update** In April 2024, UL published the revised UL 2272, 2nd Edition, *Standard for Electrical Systems for Personal E-Mobility Devices*. Revisions included updating battery pack compartment requirements, more specific requirements for gaskets and seals, clarification of flammability requirements for nonmetallic materials, updated charger requirements,

updated temperature requirements, adding reference battery pack standards for rechargeable batteries providing power to other than the drivetrain unit, and alignment of the dielectric strength test condition to other relevant standards.

**Relevant Rule**

N/A

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

**Activities Summary**

Staff continues to work with NEMA and ULSE on improving the overall safety of the battery powered products with primary focus on e-mobility devices, including e-bikes, and their battery chargers. During the reporting period, staff participated in multiple meetings on battery safety and submitted comments on two standard proposals. In August 2024, CPSC posted a contractor research report on e-bike battery packs.

**Meeting(s)**

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

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

Staff continued engagement with activities to transition OOI 2056 to a binational standard, participating in meetings to review comments on the outline and proposed standard.

Staff attended multiple meetings on UL 9540, *Energy Storage Systems and Equipment*. The consensus body voted affirmatively to accept numerous revisions to increase the minimum level of safety in August 2024.

Staff participated in a UL 858 Electric Ranges meeting to discuss the issue of batteries in ranges.

**Communication(s)**

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

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
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October 2023	UL 2056	The ballot proposed the first draft of the standard. The TC was still working through comments at the end of the reporting period.
January 2024	UL 2272	The ballot proposed changes to the battery pack, charger, and other requirements. All the proposals were adopted into the Second Edition, which had not yet been published at the end of the reporting period.
August 2024	UL 9540A	The ballot proposed numerous changes to the standard including test requirements, test conditions, definition of residential use applications, and installation level tests. The ballot passed.

**Next Action**

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

**Batteries, Ingestion (Button)**

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**Purpose**

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

**Staff Contact**

Taxier, Daniel

**Voluntary Standard(s)**

Designation and current version	Title
UL 4200A, 1 <sup>st</sup> Edition (2023)	<i>Standard for Safety for Products Incorporating Button Batteries or Coin Cell Batteries</i>
UL 60065, 8 <sup>th</sup> Edition	<i>Standard for Audio, Video, and Similar Electronic Apparatus—Safety Requirements</i>
<b>ANSI C18.1M Part 2-2024</b>	<b><i>American National Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard</i></b>
ANSI C18.2M Part 2-2021	<i>American National Standard for Portable Rechargeable Cells and Batteries—Safety Standard</i>

<b>ANSI C18.3M Part 2-2024</b>	<b><i>American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard</i></b>
ANSI C18.4M-2017	<i>American National Standard for Portable Cells and Batteries- Environmental</i>

**Standard(s)  
Update**

In April 2024, NEMA published the revised ANSI C18.1M Part 2-2024 *American National Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard*. The revisions included various changes to harmonize with IEC 60086-5 *Primary batteries - Part 5: Safety of batteries with aqueous electrolyte*.

In June 2024, NEMA published the revised ANSI C18.3M Part 2-2024 *American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard*. The revisions included various changes to harmonize with IEC 60086-4 *Primary batteries - Part 4: Safety of lithium batteries*. The changes include Annex D(Informative)'s reduction of the lower limit for marking with the "Keep Out of Reach of Children" icon, from 20mm to 16mm, and a change to the effective date stated in Annex C(Normative) Lithium Coin Packaging Marking, from May 31, 2021, to 18 months after publication of the standard.

**Relevant  
Rule**

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

On January 29, 2024, the Commission published a NOA for a *Petition Requesting Rulemaking To Amend the Requirement for a "Keep Out of Reach" Icon on Button Cell or Coin Battery Packaging* [89 FR 5438] with comments due March 29, 2024. Docket No. CPSC-2024-0004. On September 25, 2024, staff delivered a briefing package recommending denial for Commission consideration.

On August 13, 2024, CPSC published an NPR on requirements for securing button cell or coin cell batteries used in toys in 16 CFR part 1250 [89 FR 79488] with comments due November 14, 2024.

**Activities  
Summary**

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

**Meeting(s)** Staff participated in a NEMA/ANSI C18 meetings and provided an update on Reese’s Law and the related CPSC rulemaking and worked with the CPSC Small Business Ombudsman in outreach efforts.

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

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

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

**Next Action** Staff will continue participation in NEMA/ANSI C18 standards meetings and other related button and coin cell battery standards, including UL 4200A and ASTM F963, as needed. Staff will deliver a FR briefing package for Commission consideration for battery requirements in toys. The Commission will vote on the petition recommendation for button battery labeling.

## Candles and Candle Accessories

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**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

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

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

**Relevant Rule** N/A

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

**Meeting(s)** Staff participated in quarterly incident data teleconferences, discussing recent candle-related recalls and incidents found on SaferProducts.gov and from other sources, such as Canada or Europe. Staff also participated in a subcommittee meeting to review ballot results and task group meetings to discuss possible revisions to ASTM F2417 and ASTM F2601.

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

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
December 2023	ASTM F2417	Ballot F15(23-19), item 3, proposed clarifying that single wicks that intentionally split while burning are not multiple wicks. The item was approved.
December 2023	ASTM F2601	Ballot F15(23-19), items 4-7, proposed new requirements for accessories containing adhesives and glue. The items had not been resolved by the end of the reporting period.

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

## Carbon Monoxide (CO) Alarms

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

**Staff Contact** Brookman, Matthew J.

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	UL 2034, 5 <sup>th</sup> Edition	<i>Single and Multiple Station Carbon Monoxide Alarms</i>

**Standard(s) Update** On June 3, 2024, ULSE published the fifth edition of UL 2034, *Single and Multiple Station Carbon Monoxide Alarms*. The update includes changes to marking requirements on CO alarms.

**Relevant Rule** N/A

**Activities Summary**

Staff continues to work with the technical committee to enhance the standard and maintain effective performance requirements for CO alarms. During the reporting period, staff wrote a letter in support of revision to UL 2034. Additionally, CPSC published the final report *Survey on Use and Functionality of Smoke and Carbon Monoxide Alarms (SCOA) in Households* on CPSC.gov.

**Meeting(s)**

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

**Communication(s)**

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

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2023	UL 2034	The ballot proposed changes to markings on CO alarms.

**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.

**Clothing Storage Units Tipover**

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**Purpose**

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

**Staff Contact**

Talcott, Kristen

**Voluntary Standard(s)**

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

**Standard(s) Update**

The voluntary standard was not updated during the reporting period.

**Relevant**

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

## Rule

### Activities Summary

Staff continues to work with the ASTM F15.42 subcommittee on furniture safety, especially regarding tipover hazards. During the reporting period, staff participated in one subcommittee meeting and several task group meetings. Task group meetings focused on revising requirements for anti-tip devices (tip restraints) and clarifications to the ASTM F2057 standard. The CPSC rule, which incorporates ASTM F2057-23 by reference and references ASTM F3096, went into effect in October 2023. Staff also provided data to the subcommittee.

### Meeting(s)

Staff participated in one subcommittee and multiple task group meetings related to proposed changes to the ASTM F2057 and ASTM F3096 standards. Task group meetings focused on material testing and static and dynamic forces on anti-tip devices (tip restraints), references, revising stability testing for units with doors without pulls, and consideration for new anti-tip technology. Meetings included ASTM F3096 static and dynamic, materials interaction, scope, and reference task groups, ASTM new anti-tip device technology meeting, and subcommittee meetings.

### Communication(s)

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

### Ballot(s)

There were no ballots during the reporting period.

### Next Action

Staff will participate in the upcoming subcommittee meetings scheduled for October 31 and November 1, 2024.

## Electric Heaters

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### Purpose

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

### Staff Contact

Lee, Arthur

### Voluntary Standard(s)

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

### Standard(s) Update

The voluntary standard was not updated during the reporting period.

**Relevant Rule** N/A

**Activities Summary** Staff continues to work with ULSE to improve the safety of electric heaters. During the reporting period, staff participated in regular working group meetings to address electric heater fire hazards. A CPSC staff member serves as the Chair for this WG. The WG submitted proposals for UL 1278 through Collaborative Standards Development System (CSDS). Because UL 1278 refers to UL 817 for power cord sets, the WG submitted proposals to UL 817 to address heater use power cord sets. The WG submitted proposals to UL 1278 in June 2024. The proposal was published for comment in CSDS on August 19, 2024, due date on September 3, 2024. The WG submitted proposals to UL 817 (address heater use power cord sets) in June 2024. The proposal was published for comment in CSDS on August 19, 2024, due date on September 2, 2024. The comments had not been considered by the end of the reporting period.

**Meeting(s)** Staff chaired several WG meetings and presented multiple recommendations for increasing the safety of portable electric heaters. The group met frequently to develop or refine performance requirements such as tip over, internal and power cord connections, and material usage. The WG developed proposals for UL 1278 and UL 817.

**Communication(s)**

Date	Type	Summary
7/17/2024	CSDS Proposal	Staff proposed new requirements for portable electric heaters.

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
September 2024	UL 1278	Preliminary review of proposals for electric heaters.
September 2024	UL 817	Preliminary review of proposals for electric heater power supply cords.

**Next Action** CPSC staff will continue to chair and participate in working group meetings, as scheduled. The WG will review the comments, resolve comments, and submit proposals for ballot for UL 1278 and UL 817.

## Fire Safety of Portable Fuel Containers and Gasoline Cans

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

**Staff Contact** Ayers, Scott

**Voluntary Standard(s)**

Designation and current version	Title
ASTM F3429 / ASTM F3429M-24	<b>Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers</b>
ASTM F3326-21	<i>Standard Specification for Flame Mitigation Devices on Portable Fuel Containers</i>
ASTM F839-15 (Withdrawn 2024)	<b>Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use</b>
ANSI/CAN/UL/ULC 30:2022	<i>Standard for Safety Metallic and Nonmetallic Safety Cans for Flammable and Combustible Liquids</i>
NFPA 30, 2021 Edition	<i>Flammable and Combustible Liquids Code</i>

**Standard(s) Update**

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

On August 9, 2024, ASTM withdrew ASTM F839-15, *Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use*.

**Relevant Rule**

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

On April 30, 2024, the Commission published a DFR 16 CFR part 1461 *Portable Fuel Container Safety Act Regulation* [89 FR 34102] with an effective date of July 27, 2024.

**Activities Summary**

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

**Meeting(s)**

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



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

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

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

## Flammable Refrigerants

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

**Staff Contact** Ayers, Scott

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

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

**Relevant Rule** N/A

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

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

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

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

**Next Action** Staff will participate in committee, subcommittee, and working group meetings, as scheduled.

### Flooring (Slips, Trips, and Falls)

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

**Staff Contact** Gordon, Bradley

**Voluntary Standard(s)**

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

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

**Relevant Rule** On January 22, 2024, the Commission published a NOA for a *Petition Requesting Rulemaking To Mandate Testing and Labeling Regarding Slip Resistance of Flooring, Floor Coatings and Treatments, Floor Cleaning Agents, and Footwear* [89 FR 3914]. 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 F13.10 subcommittee to establish better characterization of trip, slip, and fall hazards associated with flooring. During the reporting period, staff attended subcommittee meetings. Additionally, staff developed a petition briefing package.

**Meeting(s)** Staff attended subcommittee meetings.

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

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

**Next Action** Staff will participate in upcoming meetings, as scheduled. Staff will deliver a petition briefing package to the Commission for consideration.

### Gas Appliances, CO Sensors (Gas Furnaces and Boilers)

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

**Staff Contact** Jordan, Ronald

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	ANSI Z21.47-2016/ CSA 2.3-2016	<i>Gas-Fired Central Furnaces</i>
	ANSI Z21.13-2022/ CSA 4.9-2022	<i>Gas-Fired Low Pressure Steam and Hot Water Boilers</i>
	ANSI Z21.86-2016/ CSA 2.32-2016	<i>Vented Gas-Fired Space Heating Appliances</i>

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

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

**Activities Summary** Staff continues to monitor the activities of the technical committee and subcommittees for any developments related to CO safety. During the reporting period, staff participated in CSA Z21 technical committee meetings. Additionally, staff began work on a draft NOA providing data relied on in the rulemaking, as well as an FR briefing package for Commission consideration. The NOA is expected to be published in calendar year 2025.

**Meeting(s)** Staff participated in a CSA Z21/83 technical committee meeting on fuel-burning appliances and related accessories and a CSA Joint Technical Subcommittee meeting on Standards for Gas-fired Central Furnaces to discuss changes to Z21.47, and briefed the group on the NPR. Staff engaged the subcommittee in discussion on potential alternate locations for CO sensors.

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

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

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

## Gas Ranges

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

**Staff Contact** Ayers, Scott

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

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

**Relevant Rule** N/A

**Activities Summary** During the reporting period, staff participated in CSA TSC meetings, which resulted in a draft new edition of ANSI Z21.1. Staff also participated in TSC meetings on closed loop cooking. Staff is also working with various industry, government, and advocacy stakeholders on reviewing IAQ data associated with gas ranges and an electric and gas range knob working group.

**Meeting(s)** Staff participated in multiple meetings of the CSA TSC, where the TSC focused on resolving open issues in preparation for the balloting of the draft of the next edition of the ANSI Z21.1 standard. Staff participated in an independent working group meeting on fires started by gas and electric range knobs being accidentally turned on, whether from people bumping into the knobs or pets activating the range.

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

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

**Next Action** Staff will participate in the next CSA TSC meeting, scheduled for October 2024. Staff will also continue to participate with various industry, government, and advocacy stakeholders to review IAQ associated with gas ranges related to recommendations or proposals for voluntary standards.

## Indoor Air Quality

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

**Staff Contact** Bevington, Charles

**Voluntary Standard(s)**

Designation and current version	Title
ASTM D8142-23	<i>Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers</i>
ASTM D8141-22	<i>Standard Guide for Selecting Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs) Emission Testing Methods to Determine Emission Parameters for Modeling of Indoor Environments</i>
<b>ASTM D5438-23</b>	<b><i>Standard Practice for Collection of Floor Dust for Chemical Analysis</i></b>
ASTM D8445-22a	<i>Standard Practice for Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-scale Ventilated Enclosure</i>
ASTM D6669-19	<i>Standard Practice for Selecting and Constructing Exposure Scenarios for Assessment of Exposures to Alkyd and Latex Interior Paints</i>
<b>ASTM D8560-24</b>	<b><i>Standard Guide for Determination of Airborne PFAS in the Indoor Air Environment</i></b>
ASHRAE 62.2-2022	<i>Ventilation and Acceptable Indoor Air Quality in Residential Buildings</i>

**Standard(s) Update**

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

In April 2024, ASTM published the new ASTM D8560 *Standard Guide for Determination of Airborne PFAS in the Indoor Air Environment*.

**Relevant Rule** N/A

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

**Meeting(s)** Staff participated in an ASTM D22.05 subcommittee meeting where ballot results for recent standards were discussed. Staff also chaired a task group meeting under D22.05 and presented the status of the task group for a guide entitled “Defining and categorizing modeling approaches to support source characterization for indoor exposure assessment of consumer product,” and provided a status update of completed and publicly available contractual work to develop a CPSC report that can be used by the task group as a resource when generating working drafts of the guide.

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

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

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

**Ballot(s)**

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
February 2024	WK 81752   ASTM D8560-24	Ballot D22(24-01), item 5, for a New Standard Guide for Determination of Airborne PFAS in the Indoor Air Environment. The ballot passed.

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

## Lighters

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

**Staff Contact** Ayers, Scott

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

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

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

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

**Meeting(s)** Staff participated in task group meetings to develop a new proposed standard for battery-powered utility lighters, discussing possible new requirements for torch-style utility lighters in F2201.

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

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

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

## Liquid Laundry Packets

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

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**Staff Contact** Hurley, Jill

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

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

**Relevant Rule** N/A

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

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

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

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

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

## LP Gas Appliances

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

**Staff Contact** Kim, Yeon Seok

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	CSA/ANSI Z21.97-2017 (R2022)/ CSA 2.41-2017 (R2022)	<i>Outdoor Decorative Gas Appliances</i>
	CSA/ANSI Z21.58-22 /CSA 1.6-22	<i>Outdoor Cooking Gas Appliances</i>



CSA/ANSI Z21.89-23/ CSA 1.18-23	<i>Outdoor Specialty Gas Cooking Appliances</i>
<b>NFPA 58, 2024 Edition</b>	<b><i>Liquefied Petroleum Gas Code</i></b>

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

**Relevant Rule** N/A

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

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

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

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
August 2024	CSA/ANSI Z21.58-22 /CSA 1.6-22	Ballot for the amendment for modifications to the wind testing requirements and clarifications to the manual valve requirements. Ballot was passed and the standard will be published in next fiscal year.
August 2024	CSA/ANSI Z21.89-23/ CSA 1.18-23	Ballot for the amendment for modifications to the wind testing and manual valve leakage requirements. Ballot was passed and the standard will be published in next fiscal year.

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

### **Market Umbrellas/Beach Umbrellas**

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**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>
<b>ASTM F3681-24</b>	<b><i>Standard Consumer Safety Specification for Beach Umbrellas and Anchor Devices</i></b>

**Standard(s) Update**

On April 8, 2024, ASTM published the new standard ASTM F3681-24 *Standard Consumer Safety Specification for Beach Umbrellas and Anchor Devices*.

**Relevant Rule**

N/A

**Activities Summary**

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

**Meeting(s)**

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

**Communication(s)**

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

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2023	N/A	Ballot for a new safety standard for beach umbrellas. The ballot item had some negatives that were resolved and was approved.

**Next Action**

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

**Mowers**

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**Purpose**

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

**Staff Contact**

DeGrano, Frederick

**Voluntary Standard(s)**

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

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

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

**Activities Summary** Staff continues to work with the OPEI B71.1 committee on rollover and runover/backover hazards relating to residential riding lawn mowers. During the reporting period, staff provided incident data and photos to OPEI and participated in meetings for riding lawn mowers. A contracted project with SEA Ltd. on riding mower rollover testing concluded on December 2023. Staff published the final report on August 29, 2024, and shared it with OPEI.

**Meeting(s)** Staff participated in a riding lawnmower meeting to discuss incident data, hazard patterns, technologies that may potentially be implemented to prevent runovers and backovers, and rollover testing on proof-of-concept rollover protection systems.

**Communication(s)**

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

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

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

**Portable Generators**

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

**Staff Contact** Buyer, Janet

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

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

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

**Activities Summary** Staff continues to work with ULSE and PGMA on CO hazard mitigation requirements in UL 2201 and PGMA G300. During the reporting period, staff made recommendations to PGMA for G300-2023, in letters sent in December 2023 and April 2024, to address fuel leaks in generators, which present fire and burn hazards. In a letter to the CPSC Chairman dated August 19, 2024, PGMA stated that they had recently submitted a Project Initiation Notification System (PINS) request to ANSI to open the standard for revisions based on staff's letters. PGMA stated that their technical committee soon would start the review process to update the standard and that staff would have an opportunity to review and comment as a member of their canvass committee.

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

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	12/13/2023	Letter	Staff recommended PGMA revise G300-2023 to address portable generators fuel leaks.
	4/12/2024	Letter	Staff recommended language to PGMA incorporate the requirements of ANSI/OPEI B71.10-2018 into G300.
	7/26/2024	Letter	Staff expressed support to ULSE for developing a standard with flammability requirements for generator tent canopies that are used while the generator is operating.

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

**Next Action** Staff is awaiting the PGMA technical committee’s development of proposed language for revisions to G300-2023 based on staff’s recommendations and for PGMA to form a canvass committee to review, comment, and cast ballots on those revisions. Staff will participate in any upcoming meetings and share data, as needed. Staff will continue work on a NOA to publish data relied on in the rulemaking, as well as a final rule package for Commission consideration.

## Pressure Cookers

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

**Staff Contact** Kempske, Rebekah

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

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

**Relevant Rule** N/A

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

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

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	8/27/2024	Letter	Staff provided comments on ULSE proposal for electric pressure cookers in UL 1026.
	9/24/2024	Letter	Staff provided comments on ULSE proposed changes in UL 136.

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

**Next Action** Staff will continue to engage with ULSE on any revisions to the standard.

## Recliners

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

**Staff Contact** Nesteruk, Hope

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

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

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

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

**Meeting(s)** Staff participated in an ASTM 15.42 subcommittee meeting where the EU requirement, motor force requirements, and lifting and lowering speeds were discussed. Staff also participated in recliner entrapment task group meetings to discuss proposed test methods.

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

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

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

## Smoke Alarms

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

**Staff Contact** Lee, Arthur

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

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

**Relevant Rule** N/A

**Activities Summary** Staff continues to work with ULSE and NFPA to improve efficacy of smoke alarms. During the reporting period, staff participated in meetings of Technical Committee 0217 and the independent working group on low frequency smoke and CO alarms. Additionally, the National Smoke and CO Alarm Survey collection has been completed and CPSC published the final report *Survey on Use and Functionality of Smoke and Carbon Monoxide Alarms (SCOA) in Households* on CPSC.gov.

**Meeting(s)** Staff participated in the TC 0217 - UL 217 and UL 268 Comment Resolution meeting. Staff participated in the independent working group on low frequency smoke and CO alarms. The WG discussed scope, terminology, research, and devices and systems.

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

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

**Next Action** Staff will continue participating in the update of NFPA 72 for the 2025 edition. For the next edition staff will review and participate in chapter relative Tentative Interim Amendments (TIA).

## Table Saws

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

**Staff Contact** Paul, Caroleene

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

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

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

**Activities Summary** Staff continues to work with ULSE to improve the safety of table saws. During the reporting period, staff requested that ULSE hold a meeting to discuss injury mitigation technology. Staff attended the meeting.

**Meeting(s)** Staff participated in a Table Saw Active Injury Mitigation System (AIMS) Task Group (TG) meeting, which was formed by the UL 745 technical committee in response to letters from CPSC staff expressing concern with trend analyses of table saw injuries from NEISS that show no decline in the number or severity of injuries from 2004 to 2021.

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

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

**Next Action** Staff will continue to monitor incident data and recommend safety improvements. Staff expects to deliver a NOA to publish data in FY25 relevant to the rulemaking and to develop a final rule package for Commission consideration.

## Torch Fuel and Lamp Fuel

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

**Staff Contact** White, Sharon

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

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

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

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

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

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

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

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

**Washing Machines**

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

**Staff Contact** Kim, Yeon Seok

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

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

**Relevant Rule** N/A

**Activities Summary** Staff continues to work with ULSE to improve the safety of washing machines. During the reporting period, staff participated in UL 2157 meetings.

**Meeting(s)** Staff attended a UL 2157 STP meeting and discussed draft changes on balance conditions, activation methods, and other safety issues. Staff also participated in UL TC 2157 washer stability TG meetings

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

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
June 2024	UL 2157	Ballot for proposed fifth edition of UL 2157. Ballot was passed and the new edition will be published in next fiscal year.

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

## Window Coverings

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**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

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

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

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

On September 12, 2023, the United States Court of Appeals for the District of Columbia Circuit vacated the *Safety Standard for Operating Cords on Custom Window Coverings* final rule and remanded to the Commission for further proceedings. The part 1120 rule for stock window coverings was not disturbed.

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

**Activities Summary**

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

**Meeting(s)**

Staff participated in three meetings with WCMA and other stakeholders. Staff attended a virtual meeting, in which WCMA representatives stated that the 2022 ANSI standard is a major step forward. Additionally, CPSC staff participated in an in-person meeting to demonstrate continuous cord loop systems and other innovations, such as a cord retractor device and a new tension device that meet the 2022 standard. Discussions focused on: stroke length for cord retractor devices; tension devices that cannot be easily removed; the possibility of the consumer ordering a replacement chain without a tension device; rigid cord shrouds; vertical blinds; and requesting incident data from CPSC so that all stakeholders use the same set of data. On January 22, 2024, another meeting was held at CPSC’s National Product Testing and Evaluation Center to discuss the potential for revisions to the ANSI/WCMA–2022 voluntary standard that would address CPSC staff’s concerns about strangulation hazards to children from exposed cords on custom window coverings. The WCMA representatives requested additional incident information relating to CPSC staff’s identification of a newly identified risk of vinyl blind slats breaking to expose inner cords. On April 17, 2024, staff sent a redacted In-Depth Investigation associated with inner cords to WCMA.

**Communication(s)**

<b>Date</b>	<b>Type</b>	<b>Summary</b>
12/20/2023	Data	Staff provided the subcommittee with incident data.
4/17/2024	Data	Staff provided an IDI for an inner cord incident.

**Ballot(s)**

There were no ballots during the reporting period.

**Next Action**

Staff will participate in upcoming committee meetings, when scheduled. Staff will prepare a rulemaking proposal for Commission consideration as stated in the Commission’s FY25 Operating Plan.

## Recreation

### Amusement Rides, Trampoline Parks, and Adventure Attractions

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

**Staff Contact** Caton, Tom

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	<b>ASTM F747-24</b>	<b><i>Standard Terminology Relating to Amusement Rides and Devices</i></b>
	<b>ASTM F770-24</b>	<b><i>Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices</i></b>
	<b>ASTM F1193-24e1</b>	<b><i>Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices</i></b>
	ASTM F2137-19	<i>Practice for Measuring the Dynamic Characteristics of Amusement Rides</i>
	<b>ASTM F2291-24</b>	<b><i>Standard Practice for Design of Amusement Rides and Devices</i></b>
	ASTM F2970-22	<i>Standard Practice for Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts</i>
	<b>ASTM F2974-24a</b>	<b><i>Standard Practice for Auditing Amusement Rides and Devices</i></b>

**Standard(s) Update** On May 27, 2024, ASTM published ASTM F1193-24 *Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Device* and ASTM F770-24 *Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices*.

On May 30, 2024, ASTM published ASTM F2291-24 *Standard Practice for Design of Amusement Rides and Devices*.

On June 6, 2024, ASTM published ASTM F2974-24a *Standard Practice for Auditing Amusement Rides and Devices*.

On June 10, 2024, ASTM published ASTM F747-24 *Standard Terminology Relating to Amusement Rides and Devices*.

On June 21, 2024, ASTM published ASTM F1193-24e1 *Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices*.

**Relevant** N/A

## Rule

### Activities Summary

Staff continues working with ASTM F24 to improve safety standards for amusement rides, trampoline parks, and adventure attractions within CPSC's jurisdiction. During the reporting period, staff attended data task group meetings for ASTM F24.24 and F24.40 on VR/AR used in amusement rides, participated in a trampoline subcommittee meeting, and provided data to the F08.17 trampoline subcommittee.

### Meeting(s)

Staff participated in a joint task group with ASTM F24.24 and F24.40 to discuss the use of VR/AR accessories used in amusement rides. Staff made recommendations on aligning with UL 8400 where feasible, as well as on proper cleaning, and particular hazards of cleanliness for young children. Staff also participated in an F08.17 trampoline subcommittee meeting where the CPSC-provided data were discussed.

### Communication(s)

Date	Type	Summary
3/6/2024	Data	Staff provided the trampoline subcommittee with incident data from 1/1/2012 through 12/31/2023.

### Ballot(s)

Date closed	Voluntary Standard	Summary and Results (If Applicable)
October 2023	ASTM F2291	Ballot F24(23-06), items 7-12, propose multiple updates across the standard. The ballot was still open at the end of the reporting period.
October 2023	ASTM F2970	Ballot F24(23-06), items 13-16, propose multiple updates across the standard. The ballot was still open at the end of the reporting period.
November 2023	ASTM F2291	Ballot F24(23-07), items 3 and 6, proposed to clarify requirements and add sustained acceleration limits in x, y, and z planes. Both items had persuasive negatives and were removed from the ballot.
January 2024	ASTM F770	Ballot F24(23-09), item 4, proposed to enhance training documentation and comprehension. The item had a persuasive negative and was removed from the ballot.
January 2024	ASTM F1193	Ballot F24(23-09), items 1-3, proposed requirements for producing or sourcing replacement parts. Items 1 and 3 were approved, and item 2 had a persuasive negative and was removed from the ballot.

January 2024	ASTM F2970	Ballot F24(23-09), item 16, proposed “characteristics of trampoline bed construction, dimensions, and suspension properties.” The item was unresolved at the end of the reporting period.
January 2024	ASTM F2291	Ballot F24.24(23-02), item 1, proposed addition of a vehicle fire risk analysis. The item had a persuasive negative and was removed from the ballot.
February 2024	ASTM F2291	Ballot F24(24-02), items 2-8, proposed to remove non-mandatory language., add requirements to define verifiable restraint adjustment limitations, and create a patron eligibility analysis . Items 2-4 and 6-7 had persuasive negatives and were removed from the ballot. Items 5 and 8 were approved.
February 2024	ASTM F747	Ballot F24(24-02), item 1, proposed to add an Appendix for a terminology flowchart for should or should not a term be defined in the standard. The item was approved.
February 2024	ASTM F2974	Ballot F24(24-02), items 9-11, proposed to revise F2974-22 so other applicable ASTM F24 standards are referenced. Item 9 had a persuasive negative and was removed from the ballot. Items 10-11 were approved.
April 2024	ASTM F770	Ballot F24 (24-04), item 2, proposed to add a modification program. The item was unresolved at the end of the reporting period.
March 2024	ASTM 3559	Ballot F24(24-03), items 2-3, proposed to supplement current language for seasonal/planned shutdown and to allow the owner/operator to find the best source of support. Item 2 had a persuasive negative and was removed from the ballot. Item 3 was unresolved at the end of the reporting period.
April 2024	ASTM F747	Ballot F24(24-03), item 1, proposed to remove the definition for “user” because “user” is easily defined by the Merriam-Webster definition. The ballot was approved.
April 2024	ASTM F1193	Ballot F24(24-03), items 4-5, proposed to provide additional information on what should be considered “Off-The-Shelf” components or parts and to remove improperly referenced and not

		required domestic standards. The ballot was approved.
April 2024	ASTM 2291	Ballot F24(24-03), items 6-8, proposed to change numbering, to harmonize ASTM standard with EN standard for common cause faults to make it an integral part of ride analysis, and to clarify conduct of analysis to determine the opening between the walkway and the track in patron accessible area so that designers of the fall protection system is aware of increased risk to smaller patrons. Items 6-7 were approved. Item 8 had a persuasive negative and was removed from the ballot.
April 2024	ASTM 2974	Ballot F24(24-03), item 10 proposed to revise the standard so other applicable ASTM F24 standards are referenced. The item was approved.
May 2024	WK78433	Ballot F24(24-04), item 1, proposed the New Standard Practice for Risk Assessment for Amusement Rides and Devices. The item was unresolved at the end of the reporting period.
May 2024	ASTM F770	Ballot F24(24-04), item 2, proposed requirements for a ride modification program. The ballot had multiple negatives and was unresolved at the end of the reporting period.
August 2024	ASTM F2291	Ballot F24(24-05), items 4-17 and item 30, proposed removal of unnecessary non-mandatory language, clarify certification documentation requirements, address VR/AR equipment cleaning requirements, align with the new risk assessment standard, clarify patron eligibility assessment requirements, require extra padding under specific acceleration conditions, clarify the operator controls/user interface requirements, and clarification of safety-related control system requirements. These items were unresolved at the end of the reporting period.
August 2024	ASTM F2970	Ballot F24(24-05), items 26-27, proposed creating a classification system for trampoline court beds and corrected impact attenuation block material properties. These items were unresolved at the end of the reporting period.

October 2024	ASTM F2291	Ballot F24(24-06), items 6-11, proposed improvements to requirements for patron restraint and containment. The ballot was still open at the end of the reporting period.
October 2024	ASTM F770	Ballot F24(24-06), item 12, proposed requirements to better document completion of training and ensure training comprehension. The ballot was still open at the end of the reporting period.

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

### ATVs (All-Terrain Vehicles)

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**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

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

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

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

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

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



**Activities Summary**

Staff continues to work with SVIA to develop possible performance standard requirements to address fire, tip-over, and collision hazards. During the reporting period, CPSC staff participated in meetings with members of the Society of Automotive Engineers (SAE) J350 committee and provided data and recommendations to SVIA on vehicle stability and occupant protection.

As part of the ongoing activities to study ATV stability and collision mitigation, two contractor reports were published on the CPSC website during the reporting period: “Review of Automotive Safety Technologies Applicable to All-Terrain Vehicles (ATVs),” which examined collision mitigation technologies that may be applicable to ATVs, and “Development of Enhanced Proof-of-Concept (POC) Electronic Stability Control (ESC) System for ATV Stability,” which provided a test report on two ATVs equipped with instability detection and throttle/braking controls to avert lateral rollovers.

*Meeting(s)*

CPSC staff participated in voluntary standards meetings with members of the SAE J350 committee. The U.S. Forest Service, which regulates spark arresters to mitigate the risk of forest fires via incorporation of the FS 5100 standard, requested that staff participate. The spark arrester test procedure of J350 is referenced in the FS 5100 standard. CPSC staff pointed out relevant standards for spark arrester compliance for ATVs, ROVs, and UTVs.

*Communication(s)*

Date	Type	Summary
3/18/ 2024	Email	Staff notified SVIA of the availability of two research reports on ATVs posted to the CPSC website.
6/18/2024	Data	Staff provided SVIA redacted IDIs related to ATV rollover and pitch back incidents.
9/6/2024	Letter	Staff made recommendations for revisions to ANSI/SVIA 1 and requested a meeting to discuss recent CPSC contractor (SEA Ltd.) testing on ATV stability and occupant protection devices (OPDs).

*Ballot(s)*

There were no relevant ballots during the reporting period.

**Next Action**

Staff will continue collaborating with SVIA to address fire, collision, and stability hazards associated with ATVs. A recent SEA Ltd. test report for ATV aftermarket and proof-of-concept OPDs will be published on the CPSC website.

**Bicycles**

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**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

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	<b>ASTM F2793-2024</b>	<b>Standard Specification for Bicycle Grips</b>

**Standard(s) Update** In June 2024, ASTM published ASTM F2793-2024 *Standard Specification for Bicycle Grips*. The revision corrected an error in a measurement requirement.

**Relevant Rule** 16 CFR part 1512 *Requirements for Bicycles*

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

**Activities Summary** Staff continues to work with the subcommittee on issues related to bicycles. During the reporting period, staff participated in a subcommittee meeting and provided feedback on a ballot item. Staff is developing a draft NPR for Commission consideration.

**Meeting(s)** Staff attended the ASTM F08.10 Bicycles subcommittee meetings, where a negative on the children's bicycle handlebars ballot was discussed.

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

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

**Next Action** Staff will participate in upcoming subcommittee meetings, as scheduled. Staff also plans to publish a report reviewing ASTM F2793 and 16 CFR

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1512 bicycle standards and provide an NPR for Commission consideration.

## Fireworks

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

**Staff Contact** Verdino, Priscilla

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

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

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

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

**Meeting(s)** Staff participated in APA standards committee meetings for potential revisions to APA Standard 87-1A. In September 2024, staff met with APA and resolved CPSC comments. The proposed revisions to APA 87-1A and APA 87-1A(CHEM) have not been balloted as of the reporting period.

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

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

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

## Magnet Sets

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**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

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

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

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

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

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

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	9/27/2024	Letter	Staff provided details on a magnet-related ingestion incident and the redacted IDI to the F15.22 and F15.77 subcommittees.

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

**Next Action** Staff will work with the subcommittee on developing any future requirements in the standard. Staff will meet with the ASTM F15.22 and F15.77 subcommittees, when scheduled.

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## Playground Equipment, Home

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

**Staff Contact** Phillips, Khalisa

**Voluntary Standard(s)**

Designation and current version	Title
ASTM F1148-24	<b>Standard Consumer Safety Performance Specification for Home Playground Equipment</b>
ASTM F2729-24	<b>Standard Consumer Safety Specification for Constant Air Inflatable Play Devices for Home Use</b>

**Standard(s) Update**

On August 30, 2024, ASTM published ASTM F1148-24 *Standard Consumer Safety Performance Specification for Home Playground Equipment*. The revision included updated torque tolerance values.

On September 30, 2024, ASTM published ASTM F2729-24 *Standard Consumer Safety Specification for Constant Air Inflatable Play Devices for Home Use*. The revision added arena-type products to the scope of the standard.

**Relevant Rule**

N/A

**Activities Summary**

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

**Meeting(s)**

Staff participated in an ASTM F15.09 subcommittee meeting where staff reviewed incident data shared by the agency pertaining to playground strangulations, and indoor triangle climbers. Staff participated in pictogram task group meetings to address strangulations on home playgrounds. Staff also contributed to a new task group to address hazards associated with indoor triangle climbers for infants and toddlers such as head entrapment.

**Communication(s)**

Date	Type	Summary
3/1/2024	Data	Staff provided incident data for playground strangulations.
9/20/2024	Data	Staff provided incident data for indoor triangle climbers for toddlers.

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
July 2024	ASTM F1148	Ballot F15(24-13), items 1-2, proposed revisions addressing torque tolerances and identifying hazardous protrusions. Item 1 passed, but item 2 was removed from the ballot.

October 2024	ASTM F1148	Ballot F15(24-18), item 3, proposed revisions addressing a persuasive negative regarding protrusions identification. The ballot was still open at the end of the reporting period.
May 2024	ASTM F2729	Ballot F15(24-7) items 1-3, resolved negative votes to proposal to add arena-type products to the scope of the standard.

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

### Playground Equipment, Public

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

**Staff Contact** Newens, Andy

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

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

**Relevant Rule** N/A

**Activities Summary** Staff continues to work with ASTM to improve public playground safety. During the reporting period, staff provided feedback on ballots and participated in multiple task group and subcommittee meetings. Additionally, on September 17, 2024, the Commission voted to publish an

NOA and request for comment on revisions and updates to the CPSC Public Playground Safety Handbook.”

*Meeting(s)*

Staff participated in an ASTM F14.10 Fencing Subcommittee meeting, where the subcommittee considered whether to renew F2049-11(2017) as a standard. Staff contributed to balloting WK90148 to support the renewal of F2373-11(2017). Staff participated in an ASTM F15.29 subcommittee meeting that reviewed task group activity on fully enclosed towers and climbers, play mounds, small in-ground bouncers, and the *Standard Guide for the Certification of Recreation Facility Installers*. Staff also participated in task group meetings on play mounds and small in-ground bouncers.

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

*Ballot(s)*

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
March 2024	WK 87554	Ballot F15(24-03), item 1, proposed the new Standard Guide for the Certification of Recreation Facility Installers. Negative votes were later resolved.
April 2024	ASTM F1487	Ballot F15(24-07) to add performance specifications for towers and fully enclosed structures. Negative votes were later resolved.
May 2024	ASTM F2373	Ballot F15(24-06), items 1-5, proposed revisions to scope, terminology, performance requirements, labels and signs, and to improve harmonization with related standards. The items were withdrawn due to persuasive negative votes.
May 2024	ASTM F1487	Ballot F15(24-06), item 7, proposed revisions to address performance requirements for play mounds and embankments. The item did not pass, and negative votes had not been resolved at the end of the reporting period.
June 2024	ASTM F1487	Ballot F15(24-12) item 5, proposed adding language to 6.8 to further specify exemptions to playground equipment performance requirements in Section 6.
July 2024	ASTM F2373	Ballot F15(24-14) item 5, balloted F2373 with revisions to just labels and signs. Due to one persuasive negative vote, this item

		was reballoted later under F15 (24-18) item 14.
July 2024	WK 87554	Ballot F15(24-11) resolved negatives for Standard Guide for the Certification of Recreation Facility Installers
Sept 2024	ASTM F2373	Ballot F15(24-18) item 14, balloted the signs and labels section, proposed changes from recommended language to mandatory language. The ballot was still open at the end of the reporting period.
Sept 2024	ASTM 1487	Ballot F15(24-18) items 8-13, various revisions of parts of F1487 to clarify or adjust requirements for suspended components, handrail heights, and rotating equipment. The ballot was still open at the end of the reporting period.

**Next Action** Staff will participate in subcommittee meetings in November 2024. Staff plans to consider all new comments and finalize the update to the CPSC Public Playground Handbook in 2025.

## Playground Surfacing

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

**Staff Contact** Newens, Andy

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	ASTM F1292-22	<i>Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment</i>
	ASTM F1951-21	<i>Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment</i>
	ASTM F2075-20	<i>Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment</i>
	<b>ASTM F2479-24b</b>	<b><i>Standard Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing</i></b>



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

**Standard(s) Update**

In June 2024, ASTM published ASTM F2479-24b *Standard Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing*. Revisions included terminology, toxicity issues, maintenance provisions, repairs, and related materials.

**Relevant Rule**

N/A

**Activities Summary**

During the reporting period, staff attended ASTM F08.63 subcommittee meetings. Additionally, on September 17, 2024, the Commission voted to publish an NOA and request for comment on revisions and updates to the CPSC *Public Playground Safety Handbook*.

**Meeting(s)**

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

**Communication(s)**

There were no formal communications during the reporting period.

**Ballot(s)**

<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
October 2023	ASTM F2479	Ballot F08(23-05), items 1-5, proposed revisions to terminology, toxicity issues, maintenance provisions, repairs, and related materials. The item passed.
March 2024	ASTM F1292	Ballot F08(24-01), item 1, proposed revisions to bring the standard into alignment with related standards and make editorial updates. The item received negatives and was removed from the ballot.
September 2024	ASTM F1292	Ballot F08(24-04), item 5, proposed revisions to bring the standard into

		alignment with related standards and make editorial updates. The item was unresolved at the end of the reporting period.
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**Next Action** Staff plans to attend the next ASTM playground surfacing subcommittee meeting in November 2024 and plans to consider all new comments and finalize the update to the CPSC Public Playground Handbook in FY2025.

### Pools, Portable Unprotected (Child Drowning)

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**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

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	ASTM F2666-16(2024)	<i>Standard Specification for Aboveground Portable Pools for Residential Use</i>
	ANSI/PHTA/ICC-2	<i>American National Standard for Public Pool and Spa Operations and Maintenance</i>
	ANSI/APSP/ICC-4-(R2022)	<i>American National Standard for Above-Ground/On-Ground Residential Pools</i>
	ANSI/APSP/ICC-5 (R2022)	<i>American National Standard for Residential Inground Swimming Pools</i>
	<b>ASTM F3698-24</b>	<b><i>Standard Specification for Computer-vision Drowning Detection Systems for Residential Swimming Pools</i></b>

**Standard(s) Update** On May 14, 2024, ASTM published the new standard ASTM F3698-24 *Standard Specification for Computer-vision Drowning Detection Systems for Residential Swimming Pools*.

**Relevant Rule** N/A

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

**Meeting(s)** Staff participated in multiple PHTA meetings, including the Recreational Water & Air Quality Committee (RWAQC), PHTA-4, and Standard Consensus Committee. Additionally, staff participated in ASTM F15.60

subcommittee meetings for portable aboveground pools, where incident data, pool barriers, and pool ladders were discussed. Staff also participated in a new standard for computerized vision for drowning detection in residential swimming pools.

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

<i>Ballot(s)</i>	<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	November 2023	ASTM WK76767	Ballot F15.49(23-01), item 1, proposed a potential new standard for computerized vision for drowning detection in residential swimming pools. The ballot received several negatives and was withdrawn from the ballot.
	March 2024	ASTM F3698-24	Ballot F15(24-03), item 2, proposed the new standard for computerized vision for drowning detection in residential swimming pools. The item received two negatives that were withdrawn. The item was approved.
	July 2024	PHTA-4	The standard was balloted in its entirety. There were two negatives regarding new alarming technology.

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

### Recreational Off-Highway Vehicles (ROVs)

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

**Staff Contact** Lim, Han

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

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

**Relevant Rule**

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

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

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

On September 27, 2024, The Commission voted to approve publication of the *Notice of Availability (NOA) and Request for Comment on ROV and UTV Debris Penetration data* in the Federal Register.

**Activities Summary**

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

**Meeting(s)**

CPSC staff participated in voluntary standards meetings with members of the SAE J350 committee. The U.S. Forest Service, which regulates spark arresters to mitigate the risk of forest fires via incorporation of the FS 5100 standard, requested that staff participate. The spark arrester test procedure of J350 is referenced in the FS 5100 standard. CPSC staff pointed out relevant standards for spark arrester compliance for ATVs, ROVs, and UTVs.

**Communication(s)**

There were no formal communications during the reporting period.

**Ballot(s)**

There were no ballots during the reporting period.

**Next Action**

Staff will participate in standards meetings, as scheduled. The NOA of data related to rulemaking will be published in the Federal Register.

**Self-Balancing Scooters and Light Electric Vehicles**

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**Purpose**

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

**Staff Contact**

Mella, Lawrence

**Voluntary Standard(s)**

Designation and current version	Title

ASTM F2614-15	<i>Recreational Powered Scooters and Pocket Bikes</i>
ASTM F2641-23	<i>Standard Consumer Safety Specification for Recreational Powered Scooters and Pocket Bikes</i>
ASTM 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>
ASTM WK86569	<i>Potential new voluntary standard for self-balancing scooters</i>

**Standard(s)  
Update**

The voluntary standards were not updated during the reporting period.

**Relevant  
Rule**

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

**Activities  
Summary**

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

**Meeting(s)**

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

**Communication(s)**

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

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
December 2023	WK 70724	Ballot F15(23-15), item 2, proposed the New Standard Consumer Safety Specification for Commercial Electric-Powered Scooters for Adults. The item was removed from the ballot due to a persuasive negative.
August 2024	WK 86569	Ballot F15(24-14), item 4, proposed the New Standard Consumer Safety Specification for Self-Balancing Scooters. The item was unresolved at the end of the reporting period.

September 2024	ASTM F2641	Ballot F15(24-16), item 3, proposed revision to the standard related to hand brakes. The item was unresolved at the end of the reporting period.
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**Next Action** Staff will participate in upcoming subcommittee and task group meetings, including the next ASTM subcommittee meeting scheduled in November 2024, and deliver an NPR briefing package to the Commission.

### Sports/Recreational Headgear Sensors/Helmet and Sensors

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

**Staff Contact** Ota, Greg

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

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

**Relevant Rule** 16 CFR part 1203 *Safety Standard for Bicycle Helmets*

**Activities Summary** During the reporting period, staff attended ASTM F08 and NOCSAE committee meetings. Staff reviewed ASTM and international standards and incident data related to helmets and submitted a letter to ASTM recommending revisions as a result of the review. Staff also participated in multiple ASTM F08 subcommittee and task group meetings related to helmets and attended a NOCSAE meeting.

**Meeting(s)** Staff attended F08 helmet subcommittee meetings to review recommendations staff made for updates to the standards. Staff also attended NOCSAE committee meetings to monitor activity.

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	3/14/2024	Letter	Staff provided recommendations to the ASTM F08.53 subcommittee on potential revisions to ASTM F1447-18.

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

**Next Action** Staff plans to attend the next ASTM subcommittee meetings, scheduled in November 2024.

### Swimming Pools/Spas, Drain Entrapment

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

**Staff Contact** Kempske, Rebekah

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

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

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

**Activities Summary** Staff continues to work with PHTA to improve pool and spa safety. During the reporting period, staff proposed revisions to ANSI/APSP/ICC 16-2017, participated in committee and task group meetings, and sent a letter regarding recent deaths and injuries associated with accessible pool piping and pool pump suction pressure that can cause limb or body entrapment.

**Meeting(s)** Staff participated in meetings with the PHTA-16 Standard Writing Committee (SWC) to discuss updating the standard. Staff participated in multiple standards writing committee and task group meetings for testing and turbine pumps without flow meters during the reporting period to discuss potential changes.

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	5/29/2024	Letter	Staff requested formation of a working group to develop performance requirements to address hazards associated with entrapment and drowning in bather-accessible pool piping.

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

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

## Swimming Pools/Spas, Vacuum Relief System

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

**Staff Contact** Kempke, Rebekah

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

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

**Relevant Rule** N/A

**Activities Summary** Staff continues to work with PHTA on the planned development of PHTA-17. During the reporting period, staff reached out to PHTA and ASTM to inquire about the schedule for any revisions to PHTA-17, APSP-7, and ASTM F2387. Staff also searched for incident data to share with PHTA and ASTM and there was none.

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

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



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

**Next Action** Staff will participate in upcoming PHTA meetings.

## Tents

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

**Staff Contact** Maling, Emily

**Voluntary Standard(s)**

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

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

**Relevant Rule** N/A

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

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

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

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

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

## Treadmills

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

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**Staff Contact** DeGrano, Frederick

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	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 <sup>th</sup> Edition	<i>Motor-Operated Massage And Exercise Machines</i>

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

**Relevant Rule** N/A

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

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

<b>Communication(s)</b>	<b>Date</b>	<b>Type</b>	<b>Summary</b>
	12/21/2023	Letter	Staff provided recommendations to the subcommittee on a finger probe for testing.
	4/25/2024	Letter	Staff provided details on a compressible finger probe.

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

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

## Codes, Analytical Methods, and Labeling

### Building Codes

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

**Staff Contact** Ayers, Scott

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	NFPA 30, 2021 Edition	Flammable and Combustible Liquid Code
	<b>NFPA 58, 2024 Edition</b>	<b>Liquefied Petroleum Gas Code</b>
	2024 IFGC	<i>International Fuel Gas Code</i>

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

**Relevant Rule** N/A

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

**Meeting(s)** Staff served on the IFGC Code Development Committee which considered revisions to the IFGC for the 2027 edition of the code. Staff also participated in several meetings of the ICC ad hoc committee to review code requirements for energy storage systems, including lithium-ion and non-lithium-ion batteries; staff focused on discussions related to code requirements that could affect micromobility devices and residential energy storage systems. Staff participated in an NFPA 30 meeting, advocating for a staff recommendation adding requirements within the code for consumer portable fuel containers meeting the PFCSA.

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

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

**Next Action** Staff will participate in code meetings, as scheduled.

## Chemical Test Methods

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

**Staff Contact**

Roemer, Matthew

**Voluntary Standard(s)**

<b>Designation and current version</b>	<b>Title</b>
ASTM E1645-21	<i>Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis</i>
<b>ASTM F2617-15(2023)</b>	<b><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></b>
<b>ASTM F2853-10(2023)</b>	<b><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></b>
<b>ASTM E3193-23</b>	<b><i>Standard Test Method for Measurement of Lead (Pb) in Dust by Wipe, Paint, and Soil by Flame Atomic Absorption Spectrophotometry (FAAS)</i></b>
<b>ASTM E3203-24, 2-4a</b>	<b><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></b>
ASTM D7823-20	<i>Standard Test Method for Determination of Low-Level Phthalates in Poly (Vinyl Chloride) Plastics by Thermal Desorption—Gas Chromatography/Mass Spectrometry</i>
ASTM D7993-15(2019)	<i>Standard Guide for Analyzing Complex Phthalates</i>
ASTM D8133-23	<i>Standard Test Method for Determination of Low-Level Phthalates in Poly(Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry</i>
WK 83978	<i>New Standard Guide for Selecting and Applying Analytical Methods to Evaluate PFAS in Consumer and Related Products</i>

**Standard(s) Update**

On November 3, 2023, ASTM published ASTM F2617-15(2023), *Standard Test Method for Identification and Quantification of Chromium, Bromine, Cadmium, Mercury, and Lead in Polymeric Material Using Energy Dispersive X-ray Spectrometry* and ASTM F2853-10(2023) *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*, renewals of the standards.

On November 21, 2023, ASTM published the revised ASTM E3193-23 *Standard Test Method for Measurement of Lead (Pb) in Dust by Wipe, Paint, and Soil by Flame Atomic Absorption Spectrophotometry (FAAS)*. The revision included airborne particulate and dust by micro-vacuuming and was retitled as *Standard Test Method for Measurement of Lead (Pb) by Flame Atomic Absorption Spectrophotometry (FAAS)* for simplification.

On June 5, 2024, ASTM published ASTM E3203-24a *Standard Test Method for Determination of Lead in Dried Paint, Soil, and Wipe Samples by Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES)*. The revisions included airborne particulate and dust by micro-vacuuming and was retitled as *Standard Test Method for Determination of Lead by Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES)* for simplification.

**Relevant Rule** N/A

**Activities Summary** During the reporting period, staff continued working with the ASTM D20.70 subcommittee on analytical methods to review the status of several methods. Staff participated in an interlaboratory study (ILS) for ASTM D8133-23 in FY23. The purpose of the ILS was to determine the Precision and Bias (P&B) statement for ASTM D8133-23 (both Methods A and B). Both the data obtained and a draft P&B statement from the ILS were presented and reviewed on April 10, 2024. Minor adjustments will be made to the draft P&B statement prior to balloting. Additionally, staff participated in several ASTM F15.81 meetings and provided comments on a ballot.

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

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

**Communication(s)**

Date	Type	Summary
3/25/2024	Letter	Staff provided comments on ballot F15(24-04).

**Ballot(s)**

Date closed	Voluntary Standard	Summary and Results (If Applicable)
February 2024	ASTM E3203	Ballot D22(24-01), item 20, proposed requirements for airborne particulate and

		dust by micro-vacuuming and retitling the standard. The item passed.
March 2024	WK83978	Ballot ASTM F15(24-04), item 1, proposed a new Standard Guide for Selecting and Applying Analytical Methods to Evaluate PFAS in Consumer and Related Products. The item was still unresolved at the end of the reporting period.

**Next Action**

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

**National Electrical Code**

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**Purpose**

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

**Staff Contact**

Miller, Einstein

**Voluntary Standard(s)**

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

**Standard(s) Update**

The Code was not updated during the reporting period.

**Relevant Rule**

N/A

**Activities Summary**

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

**Meeting(s)**

Staff participated in several code making panel (CMP) task groups during the reporting period to review public inputs to the first draft of the 2026 NEC. Staff took part in the CMP 2 and CMP 17 overall meetings where staff supported clarifications for kitchen island receptacles to prohibit receptacles below the kitchen island surface and also advocated for GFCI

requirements for pool electric heaters, CMP 2 TG 1 and TG 2, Branch Circuits, CMP 17 TG 1, Appliances, CMP 17 TG 3, Swimming Pools, Fountains, and Similar Installations.

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

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

<b>Ballot(s)</b>	<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	April 2024	2026 NEC/NFPA 70	First Draft Correlating Committee issued the final ballot results for panel actions related to public inputs received. The ballot results correlate to the First Draft of the 2026 edition of the NEC.

**Next Action** Staff will continue to participate in the 2026 NEC development cycle and related task groups to address fire and shock. Overall meetings of CMP 2 and CMP 17 will be held in October 2024 to discuss public comments on the first revision of the 2026 NEC.

### Warning Signs and Labels (and Ad Hoc Language)

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

**Staff Contact** Smith, Tim

<b>Voluntary Standard(s)</b>	<b>Designation and current version</b>	<b>Title</b>
	ANSI Z535.7-2024	<i>Standard for Product Safety Information in Electronic Media</i>

**Standard(s) Update** In September 2024, NEMA published the new standard ANSI Z535.7 *Standard for Product Safety Information in Electronic Media*.

**Relevant Rule** N/A

**Activities Summary** Staff continues to work with NEMA and ASTM to enhance safety warnings for consumer products. During the reporting period, staff provided feedback on the balloted standard.

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

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

<i>Ballot(s)</i>	<b>Date closed</b>	<b>Voluntary Standard</b>	<b>Summary and Results (If Applicable)</b>
	June 2024	Z535.7	Recirculation ballot to approve Z535.7.

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



# Appendix 1: 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.

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

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

## Appendix 2: New or Revised Voluntary Standards Contributing Towards Meeting CPSC 2024KM1.2.1, Published October 1, 2023 - September 30, 2024

Standard	SDO	Date Published	DR	New or Revision	Op Plan Category
ASTM D5438-23 Standard Practice for Collection of Floor Dust for Chemical Analysis	ASTM	10/2/23	C. Bevington	Revision	IAQ
ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	ASTM	10/13/23	B. Mordecai	Revision	Toys
NFPA 58 Liquefied Petroleum Gas Code	NFPA	10/20/23	S. Ayers	Revision	Building Codes
ASTM D3474-23 Standard Practice for Calibration and Use of Torque Meters Used in Packaging Applications	ASTM	11/7/23	S. Burns	Revision	Child-Resistant Packages (CRP)
UL 2900-1 - 2nd Ed (2023) Software Cybersecurity for Network-Connectable Products Part 1 General Requirements	UL	12/13/23	S. Lee	Revision	Connected Products/ Internet of Things
ANSI_PGMA_G300-2023 Safety and Performance of Portable Generators	PGMA	12/29/23	J. Buyer	Revision	Portable Generators
ASTM F3429/3429M-24 Standard Specification for Performance of Flame Mitigation Devices Installed in Disposable and Pre-Filled Flammable Liquid Containers	ASTM	1/19/24	S. Ayers	Revision	Fire Safety of Portable Fuel Containers
ASTM F3084-23 Standard Consumer Safety Specification for Infant and Toddler Rockers	ASTM	1/23/24	Z. Foster	Revision	Infant Rockers
CSA/ANSI Z21.1-24/CSA 1.1-2024 Household Cooking Gas Appliances	CSA	2/13/24	S. Ayers	Revision	Gas ranges
ASTM F3186-24 Standard Specification for Adult Portable Bed Rails and Related Products	ASTM	3/1/24	V. Dayal	Revision	APBR
ASTM F2088-24 Standard Consumer Safety Specification for Infant and Cradle Swings	ASTM	3/6/24	C. Torres	Revision	Infant swings

ASTM D8560-24, Standard Guide for Determination of Airborne PFAS in the Indoor Air Environment	ASTM	4/1/24	C. Bevington	New	IAQ - check date published
ASTM F3681-24 Standard Consumer Safety Specification for Beach Umbrellas and Anchor Devices	ASTM	4/8/24	A. Newens	New	Market and Beach Umbrellas
ANSI C18.3M part 2- 2024 American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard	NEMA	4/8/24	D. Taxier	Revision	Batteries, Ingestion (Button)
UL 2272 2nd edition Standard for Electrical Systems for Personal E-Mobility Devices	UL	4/19/24	J. Kadiwala	Revision	Batteries, Fire (High-Energy Density)
UL 217 Smoke Alarms	UL	5/8/24	A. Lee	Revision	Smoke Alarms
ASTM F3698-24 Standard Specification for Computer-vision Drowning Detection Systems for Residential Swimming Pools	ASTM	5/14/24	S. Bathalon	Revision	Pools Child Drowning
UL 3300 Service, Communication, Information, Education and Entertainment Robots- SCIEE Robots	UL	5/14/24	Z. Goldstein	New	SCIEE
ASTM F1193-24 Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices	ASTM	5/27/24	T. Caton	Revision	Amusement Rides and Trampoline Parks
ASTM F770-24 Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices	ASTM	5/27/24	T. Caton	Revision	Amusement Rides and Trampoline Parks
ASTM F2291-24 Standard Practice for Design of Amusement Rides and Devices	ASTM	5/30/24	T. Caton	Revision	Amusement Rides and Trampoline Parks
UL 2034 Single and Multiple Station Carbon Monoxide Alarms	UL	6/3/24	M. Brookman	Revision	Carbon Monoxide (CO) Alarms
UL 2034 5th edition Single and Multiple Station Carbon Monoxide Alarms	UL	6/3/24	M. Brookman	Revision	Carbon Monoxide (CO) Alarms
ASTM F2974-24a Standard Practice for Auditing Amusement Rides and Devices	ASTM	6/6/24	T. Caton	Revision	Amusement Rides and Trampoline Parks
ASTM F747-24 Standard Terminology Relating to Amusement Rides and Devices	ASTM	6/10/24	T. Caton	Revision	Amusement Rides and Trampoline Parks

ANSI C18.1M Part 2-2024 American National Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard	NEMA	6/14/24	D. Taxier	Revision	Batteries, Ingestion (Button)
ASTM F2793-2024 Standard Specification for Bicycle Grips	ASTM	6/19/24		Revision	Bicycles
ASTM F1193-24e1 Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices	ASTM	6/21/24	T. Caton	Revision	Amusement Rides and Trampoline Parks
ASTM F1967-24 Standard Consumer Safety Specification for Infant Bath Seats	ASTM	6/25/24	J. Kerns	Revision	Infant Bath Seats
ASTM F2236-24 Standard Consumer Safety Specification for Soft Infant and Toddler Carriers	ASTM	8/13/24	Z. Foster	Revision	Soft infant carriers
ASTM F1148-24 Standard Consumer Safety Performance Specification for Home Playground Equipment	ASTM	8/30/24	K. Phillips	Revision	Playgrounds (Home)
ASTM F3463-24 Standard Guide for Ensuring the Safety of Connected Consumer Products	ASTM	9/10/24	S. Lee	Revision	Connected Products/ Internet of Things
ASTM F3669-24 Standard Consumer Safety Specification for Nursing Pillows	ASTM	9/10/24	T. Smith	Revision	Nursing Pillows
ASTM F406 -24 Standard Consumer Safety Specification for Non-Full Size Cribs and Play Yards	ASTM	9/18/24	F. DeGrano	Revision	Non-full sized cribs/ Play Yards
ANSI Z535.7 24 Product Safety Information in Electronic Media	NEMA	9/19/24	T. Smith	New	Warning Signs and Labels (and Ad Hoc Language)
ASTM F2729-24 Standard Consumer Safety Specification for Constant Air Inflatable Play Devices for Home Use	ASTM	9/30/24	K. Phillips	Revision	Playgrounds (Home)