



UNITED STATES CONSUMER PRODUCT SAFETY COMMISSION 4330 EAST WEST HIGHWAY BETHESDA, MARYLAND 20814

#### Memorandum

June 2, 2021

To: The Commission

Alberta E. Mills, Secretary

THROUGH: Mary T. Boyle, Executive Director

Jennifer Sultan, Acting General Counsel

FROM: Patricia L. Edwards,

Voluntary Standards Coordinator

Office of Hazard Identification and Reduction

SUBJECT: Voluntary Standards Activities Fiscal Year 2021 Mid-Year Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Fiscal Year 2021 (FY 2021) Mid-Year Voluntary Standards Tracking Activities Report (VSTAR), covering the period from October 1, 2020 through March 31, 2021. If you have any questions, please contact Patricia Edwards at: pedwards@cpsc.gov.

# VOLUNTARY STANDARDS TRACKING ACTIVITY REPORT



FY 2021 MID-YEAR REPORT (October 1, 2020–March 31, 2021)

## U.S. CONSUMER PRODUCT SAFETY COMMISSION 4330 East West Highway, Bethesda, MD 20814

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

## Voluntary Standards Activities October 1, 2020–March 31, 2021

#### **SUMMARY**

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

The Voluntary Standards Tracking Activity Report (VSTAR) is issued biannually as: (1) a Mid-Year Report, covering the period from October 1 through March 31, and (2) an Annual Report of the CPSC fiscal year, which covers the period from October 1 to September 30. This document is the Fiscal Year 2021 (FY 2021) Mid-Year Report.

Voluntary standards activities are handled by various standards developing organizations (SDOs), most of them accredited by the American National Standards Institute<sup>1</sup> (ANSI). The majority of the voluntary standards discussed in this report are developed by ASTM International (ASTM) and Underwriters Laboratories Inc. (UL). This report contains a listing of all the SDOs working with staff on voluntary standards and includes their abbreviated designation(s).

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

Lastly, the VSTAR contains a section for each product or product area associated with voluntary standards work, as outlined in the FY 2021 CPSC Operating Plan (Op Plan). The FY 2021 Op Plan outlines 78 different products or product areas, for which staff is, or will be, actively involved in developing voluntary standards during the fiscal year. The voluntary standards covered in this report provide safety provisions addressing potential hazards associated with

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

consumer products found in homes, schools, and recreation areas. More than 30 different staff serve as designated representatives (DRs) for the voluntary standards work that covers the 78 products outlined in this report.

Each VSTAR product section includes the following information:

**Staff Contact:** The name of staff leading the activity (*i.e.*, the DR);

**Voluntary Standard(s):** The designation(s) and name(s) of existing voluntary standards,

potential new voluntary standards, and ISO standards associated with the product, with which staff is actively involved. The designation and titles for new or updated voluntary standards are in *bold font*. Titles for current voluntary standards are in *italics*, and titles of draft or potential standards are in plain font (not bold

and non-italicized).

**Relevant Rulemaking:** Any associated CPSC mandatory standard(s), proposed

regulation(s), and any relevant petitions, regardless of status.

**Standard(s) Update:** Any updates to the voluntary standards or potential new

voluntary standards with staff's participation. This subsection

also includes updates to any of the petitions, mandatory

standards, or proposed regulations noted in the subsection above.

**Purpose:** The purpose of staff's involvement with the voluntary

standard(s).

Activities: Activity associated with the voluntary standards, mandatory

standards, proposed regulations, and petitions that occurred during the reporting period. Staff and Commission activities are

highlighted in this subsection.

**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.

For additional information on specific activities outlined in the product sections of this report, and to review any voluntary standards meeting logs, check the CPSC website.

#### **UPDATED STANDARDS**

Table 1 lists the 15 revised, renewed, or new voluntary standards that staff actively engaged in revising or developing, and that were published during the period October 1, 2020 to March 31,

2021. Details regarding the revisions can be found in the applicable product sections of this report. The designations and titles of these 15 voluntary standards are shown in bold font in the applicable product sections.

Table 1: New or Revised Voluntary Standards Published October 1, 2020 - March 31, 2021

Title	SDO	Standard Designation	Published	DR	New, Revision, Renewal
Guide for Ensuring the Safety of Consumer Connected Products	ASTM	F3463-20	Oct-20	Lee, S.	New
Polymeric nanocomposite films for food packaging with barrier properties - Specification of characteristics and measurement methods	ISO	ISO/TS 21975:2020	Oct-20	Matheson, J.	New
Standard Test Method for Determining Impact Attenuation of Playground Surfaces	ASTM	F3313-20	Nov-20	Lee, K.	Revision
Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear	ASTM	F1446-20	Nov-20	Dayal, Vineed	Revision
Standard for Construction, Classification, Approval, and Transportation of Consumer Fireworks	APA	APA 87-1A	Dec-20	Valliere, R.	Revision
Particular Requirements for Robotic Battery Powered Electrical Lawnmowers	OPEI	ANSI/OPEI 60335-2-107- 2020	Dec-20	Paul, C.	Revision
Standard Consumer Safety Specification for High Chairs	ASTM	F404-20	Dec-20	Marquis, S.	Revision
Standard Consumer Safety Specification for Child Safety Locks and Latches for Use with Cabinet Doors and Drawers	ASTM	F3492-21	Feb-21	Lee, K.	New
Standard Specification for Candle Fire Safety Labeling	ASTM	F2058-07 (2021)	Feb-21	Ayers, S.	Renewal
Standard Specification for Determining Flammability of Materials for Recreational Camping Tents and Warning Labels for Associated Hazards	ASTM	F3431-21	Feb-21	Tenney, A.	Revision

Standard Consumer Safety	ASTM	F2613-21	Feb-21	Lee, K.	Revision
Specification for Children's Chairs and Stools					
Structural characterization of graphene Part 1: Graphene from powders and dispersions	ISO	ISO/DTS 21356- 1:2021	Feb-21	Matheson, J.	New
Standard Specification for Marketing, Packaging, and Labeling Adult Magnet Sets Containing Small, Loose, Powerful Magnets (with a Flux Index $\geq$ 50 kG <sup>2</sup> mm <sup>2</sup> )	ASTM	F3458-21	Mar-21	Harsanyi, S.	New
American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard	NEMA	ANSI C18.3M Part 2-2021	Mar-21	Le, H.	Revision

#### VOTING AND LEADERSHIP ROLES ON VOLUNTARY STANDARDS

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. In FY 2021, the Office of the Executive Director (OEX) approved one new staff leadership role and four new staff voting requests. OEX also approved one renewal request for a leadership role and three renewal requests for voting during the reporting period. Listed below are the requests approved during the first half of FY 2021:

- Steve Harsanyi Renewal (voting on ASTM F15.77, Adult Magnets)
- Kevin Lee Renewal (voting on ASTM F15.29, Public Playgrounds)
- Allyson Tenney Renewal (voting on ASTM F08.22, Tent Flammability)
- Steve Harsanyi New approval (voting on ASTM F15.66, Crib Mattresses)
- Celestine Kish New approval (voting on ASTM F15.18, Bassinets/Cradles)
- Celestine Kish New approval (voting on ASTM F15.18, Inclined Infant Sleep Products)
- Celestine Kish New approval (voting on ASTM F15.18, In-Bed Sleepers\*)
- Arthur Lee Renewal (leadership on UL 1042, Electric Room Heaters)
- Vineed Dayal New approval (leadership on ASTM F08.53 Helmet Sensors)

<sup>\*</sup>Not included in the voluntary standards table for the FY 2021 Op Plan

#### **ORGANIZATIONAL ABBREVIATIONS**

The list below contains abbreviations for SDOs and other groups related to the standards covered by this VSTAR report:

AATCC American Association of Textile Chemists and Colorists

AFSL The American Fireworks Standards Laboratory

AHFA American Home Furnishing Alliance

AHRI Air Conditioning, Heating and Refrigeration Institute

ANSI The American National Standards Institute

• ANS – American National Standard (Approved by ANSI)

APA American Pyrotechnics Association

APSP The Association of Pool and Spa Professionals (now part of The Pool & Hot Tub

Alliance, see PHTA)

ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers

ASTM ASTM International

BIFMA Business and Institutional Furniture Manufacturing Associations

CAN Health Canada Regulation

CANENA Council for Harmonization of Electrotechnical Standards of the Nations in the

Americas

CSA CSA Group

• TSC – Technical Subcommittee

• TC – Technical Committee

EN European Standards

ICC International Code Council

IEC International Electrotechnical Commission

IEEE The Institute of Electrical and Electronics Engineers

ISO International Organization for Standardization

• TAG – Technical Advisory Group

• TC – Technical Committee

NEMA National Electrical Manufacturers Association

NFPA National Fire Protection Association

• NEC – National Electrical Code

• TIA – Technical Interim Agreement

NFSI National Floor Safety Institute

NIST National Institute of Standards and Technology

NOCSAE National Operating Committee on Standards for Athletic Equipment

OPEI Outdoor Power Equipment Institute

PGMA Portable Generator Manufacturers Association

PHTA Pool & Hot Tub Alliance

ROHVA Recreational Off-Highway Vehicle Association

SAE Society of Automotive Engineers

SVIA Specialty Vehicle Institute of America

UL Underwriters Laboratories Inc.

STP – Standards Technical Panel

 ORD – Other Recognized Document (pertains to voluntary standards recognized in Canada)

WCMA Window Covering Manufacturers Association

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## CPSC Staff Voluntary Standards Activities FY 2021 Mid-Year Report (October 1, 2020–March 31, 2021)

## **Additive Manufacturing/3D Printing**

Staff Contact	Thomas, Treye	
Voluntary Standard(s)	UL 2904, 1st Edition	Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers
	ISO/ASTM WD 52932	Potential new joint ISO and ASTM voluntary standard for determining the particle and chemical emission rates from desktop 3D printer material extrusion
	ASTM WK69730	Potential new voluntary standard for wired directed- energy deposition processes
Relevant Rulemaking	NA	
Standard(s) Update	The voluntary standard period.	ds listed above were not updated during the reporting
Purpose	Additive Manufacturin	TM, CSA, and other SDOs to develop standards for ng and 3D Printers to address the hazards associated cts and the 3D printing process.
Activities	on 3D printers. Federa NIST, and the US Arm to quantify and charac	agency agreements to support collaborative research l agency collaborators include the US EPA, NIOSH, my ERDC. This research involves developing methods terize chemical releases during printing and from apportant potential outcome of this 3D printing voluntary standards.
Next Action	for additive manufactu	work with stakeholders to develop voluntary standards uring and 3D printing. Staff will participate in the eeting on additive manufacturing from May 12 to May

#### **Adult Portable Bed Rails**

Staff Contact Dayal, Vineed

**Voluntary** ASTM F3186-17 Standard Specification for Adult Portable Bed Rails

Standard(s) and Related Products

*Relevant* 13-1 *Petition on Adult Portable Bedrails* docketed in June 2013.

Rulemaking

**Standard(s)** The voluntary standard and the petition listed above were not updated during

*Update* the reporting period.

**Purpose** To work with ASTM to revise the voluntary standard, as needed, to address

hazards associated with adult portable bed rails.

Activities In January 2021, staff supplied ASTM with incident data pertaining to adult

portable bed rails. On March 26, 2021, staff followed up with a letter to the ASTM subcommittee chair requesting that a subcommittee meeting be

scheduled to review the data.

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

May 2021. Staff will also begin testing and analysis in support of a FY 2022

briefing package for Commission consideration regarding the petition.

## **All-Terrain Vehicles (ATVs)**

**Staff Contact** Paul, Caroleene

**Voluntary** ANSI/SVIA 1-2017 Four Wheel All-Terrain Vehicles **Standard(s)** 

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

Rulemaking

Standard(s) The voluntary and mandatory standards listed above were not updated during the reporting period.

**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.

#### Activities

Fire Hazards: At the end of FY 2020, staff attended a meeting with SVIA and OPEI, where rollover containment, fuel hose tensile test, fuel system ventilation, and fuel tank structural integrity were discussed. OPEI staff informed staff that some SDO members may present proposals to revise the standard in FY 2021. On March 23, 2021, SVIA informed CPSC that ANSI/SVIA 1-2017 is open for revision.

*Stability Hazards*: Staff conducted research on ATVs equipped with antilock brake systems, and intend to share the initial test data with SVIA.

Occupant Protection Hazards: Staff reviewed and provided comments to a contractor report on proof-of-concepts of occupant protection devices, dynamically tested and evaluated with a rollover sled device. This report will be shared with the SDOs.

#### **Next Action**

The Occupant Protection Hazards contractor report is expected to be published in third quarter FY 2021. In addition, staff will submit an ANPR briefing package on fire and debris penetration to the Commission on April 28, 2021, in accordance with the FY 2021 Op Plan. The ANPR briefing package includes fire issues for ATVs. Staff will review comments received on the ANPR and any proposed requirements from SVIA to address fire hazards. Staff will also share information on ATV stability and occupant protection with SVIA and plan a meeting to discuss.

## Amusement Rides, Trampoline Parks, and Adventure Attractions

Staff Contact	Taxier, Daniel	
Voluntary Standard(s)	ASTM F770-19	Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices
	ASTM F1193-18a	Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices
	ASTM F2137-19	Practice for Measuring the Dynamic Characteristics of Amusement Rides
	ASTM F2974-20	Standard Practice for Auditing Amusement Rides and Devices

## ASTM F2291-20 Standard Practice for Design of Amusement Rides and Devices

Relevant Rulemaking N/A

Standard(s) Update

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

**Purpose** 

To work with ASTM to revise their voluntary standards to strengthen safety provisions addressing hazards associated with amusement rides.

Activities

Staff participated in the October 12-16, 2020 general meetings of ASTM Committee F24 on Amusement Park Rides and Devices. The related subcommittees and task groups met to discuss ongoing standards development and other factors pertaining to the safety of amusement park rides. Staff attended the following meetings:

F24.70 Strategy Session

F24.20 Specifications and Terminology

F24.24 Task Group on Patron Clearance Envelope

F24.24 Task Group on F1193 - Standard Practice for Quality, Manufacture,

and Construction of Amusement Rides and Devices

F24.24 Task Group on F2291 Acceleration

F24.24 Task Group on Orphan Rides

F24.24 Task Group on Loads & Strengths

F24.24 Task Group on Ride Modifications

F24.24 Task Group on AR/VR

F24.80 Global Standard Harmonization

F24.24 Task Group on Restraints

F24.90 Task Group on Ride Analysis (Risk Assessment)

F24.90 Evolution (EVO) Group #1 – Design/Engineering Corrosion Issues

F24.90 EVO Group #2 – Maintenance Corrosion Issues

During the F24.24 task group meetings on F2291 Acceleration, staff expressed interest in reviewing a proposal from MLIT Japan limit lateral acceleration. The review has not yet taken place. Staff also suggested potential changes to non-mandatory language in the F2291 standard during the F24.24 Loads and Strengths meeting.

Staff participated in the February 2021 general meeting of ASTM Committee F24 on Amusement Park Rides and Devices. The related subcommittees and task groups met to discuss ongoing standards development and other factors pertaining to the safety of amusement park rides. Staff attended the following meetings:

F24.24 Station Guarding

F24.70 Task Group on Water Slides – F2376 Reorganization Process

F24.70 Task Group on Water Slide Patron Clearance Envelope

F24.70 Task Group on Water Slides – Rider Eligibility Requirements

F24.24 Task Group on F2291 Acceleration

F24.24 Life Cycle (Orphan Ride) Task Group

F24.24 Task Group on Loads and Strengths

F24.24 Task Group on Ride Modification

F24.24 VR/AR Task Group

F24.30 Maintenance and Inspection Subcommittee Meeting

F24.40 Subcommittee on Operations

F24.24 Restraints

F24.90 Risk Assessment

F24.90 EVO Group #1 – Design/Engineering Corrosion Issues

F24.90 EVO Task Group #2 - Maintenance Corrosion Issues

During the F24.90 EVO Task Group #1 meeting in February 2021, staff suggested a potential change to balloted language to resolve a negative vote. This discussion resumed during the March 24, 2021 meeting.

On March 24, 2021, staff participated in an EVO Task Group #1. This task group has been working since 2017, to address corrosion issues related to the Design/Engineering of amusement rides and devices in response to a letter from staff.

**Next Action** 

Staff will continue to participate on F24 subcommittees, including attending the next committee meetings scheduled for October 2021.

## **Artificial Intelligence (AI)**

Staff Contact Taylor, Nevin UL 3300 Potential new voluntary standard for safety of service, **Voluntary** Standard(s) communication, information, education, and entertainment (SCIEE) robots Relevant NA Rulemaking Standard(s) The voluntary standard listed above was not updated during the reporting **Update** period. To work with applicable SDOs to develop standards to address the safety **Purpose** 

hazards associated with artificial intelligence in consumer products.

#### Activities

In October 2020, staff held meetings with ASTM staff and with ANSI staff, to introduce CPSC's new Chief Technologist, Nevin Taylor, and to discuss staff's plan on artificial intelligence as it pertains to the safety of consumer products.

On February 2, 2021, staff attended a UL STP kickoff meeting for stakeholders interested in developing a new consensus standard - UL 3300, for SCIEE robots. The STP reviewed a summary of the Outline of Investigation - UL 3300, which serves as the new voluntary standard's seed document. Members will have access to the complete Outline of Investigation after the meeting, and when the open comment period begins.

On March 2, 2021, staff hosted a forum on AI and Machine Learning (ML) technology and consumer product safety. The objective of the event was to exchange information with stakeholders about the safety of consumer products that use AI and ML technology. The forum participants discussed AI and ML policy, voluntary standards, application, assessments, and safety.

#### Next Action

Staff will continue to work with SDOs to identify other potential voluntary standards for development and will participate in the next UL STP 3300 meeting, following the open comment period.

### **Bassinets/Cradles**

Staff Contact	Kish, Celestine
Voluntary Standard(s)	ASTM F2194-16e <sup>1</sup> Standard Consumer Safety Specification for Bassinets and Cradles
Relevant Rulemaking	16 CFR part 1218, Safety Standard for Bassinets and Cradles
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with bassinets and cradles.
Activities	At the end of FY 2020, ASTM issued a ballot containing three items pertaining to bassinets: stability, scope/terminology, and side height. In October 2020, staff cast negative votes for those ballot items, reasoning that the proposals to reduce side-height and the 20°inclined surface stability test for compact bassinets are less stringent than the existing requirements for

traditional bassinets. Staff's negative vote on the stability requirement was deemed to be non-persuasive. Meanwhile, negative votes cast by other subcommittee members on the scope/terminology and side height were found to be persuasive, and these ballot items were subsequently re-balloted in December 2020. Staff again voted negative on these two items, referring to the same rationale from the October 2020 letter.

In February 2021, ASTM issued another ballot containing two items on bassinets: (1) requirements for baby box-style bassinet lids, and (2) cardboard water repellency requirements for baby boxes. Staff voted affirmative on these items.

In addition to balloting activity, staff participated at the ASTM subcommittee meeting on November 10, 2020. During the meeting, ballot results were discussed, and two new task groups were formed to: (1) clarify Section 6.8 Fabric-Sided Enclosed Openings, and whether it is an entrapment or fall hazard; and (2) clarify pad vs. sleeping pad vs. mattress and Section 6.10. Staff will participate in each task group.

Task group meetings were held on December 17, 2020 for Baby Box products, on January 22, 2021 for Ad Hoc Language and Sleeping Pads, and on February 23, 2021 for Ad Hoc Language. Staff participated in each of these task group meetings.

**Next Action** 

Staff will participate in upcoming meetings, including the next ASTM subcommittee meeting scheduled in May 2021.

## **Bath Tubs (Adult)**

Staff Contact	Bowley, Susan	
Voluntary Standard(s)	ASTM F462 - 79(2007) (Withdrawn in 2016)	Consumer Safety Specification for Slip-Resistant Bathing Facilities
Relevant Rulemaking	N/A	
Standard(s) Update	The voluntary standard period.	d listed above was not updated during the reporting
Purpose		to re-establish F462, or develop a new voluntary l hazards associated with adult bath tubs and shower

#### Activities

On March 19, 2021, staff participated in an ASTM F15.03 subcommittee meeting. This meeting was held to revisit and discuss the withdrawn standard, ASTM F462, and the obstacles to creating a new standard to address slip/fall hazards in bath tubs. The ASTM F462 standard was not based on human slip research, and it focused on using only one slip-resistance tester to determine coefficient of friction. The members want to focus on developing a new standard that uses reference surfaces and human subject testing. To date, members have not created any reference surfaces for testing. Staff discussed addressing vulnerable populations, such as the elderly, in the standard. Discussion also involved: including plastic bath tub manufacturers in the group; including friction strips, mats, and handholds in the new standard; characterizing wear on the surface over use time; ASME A112.19.1 (plumbing standard); ASTM F446 and Americans with Disabilities Act provisions in ICC A117.1.

During the meeting, many tasks were assigned for next steps, including reviewing the CPSC bid process used last year for a contract regarding bath tub test method development, to notify a larger audience (no bids were received). Staff also agreed to provide incident data on an ongoing basis regarding elderly slip/fall incidents and bath tubs.

#### **Next Action**

Staff will participate in the next ASTM subcommittee meeting, when scheduled, and provide support to the task groups.

## Batteries, Fire (High-Energy Density)

Staff Contact	Kadiwala, Jay	
Voluntary Standard(s)	UL 1642, 6 <sup>th</sup> Edition	Standard for Safety for Lithium Batteries
	UL 2743, 2 <sup>nd</sup> Edition	Standard for Portable Power Packs
	UL 1310, 7 <sup>th</sup> Edition	Standard for Safety for Class 2 Power Units
	UL 62133, 2 <sup>nd</sup> Edition	Standard for Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
	ANSI C18.2M Part	American National Standard for Portable

2-2014 Rechargeable Cells and Batteries—Safety Standard

ANSI C18.3M Part American National Standard for Portable Lithium 2-2021 Primary Cells and Batteries - Safety Standard

ANSI C18.4M-2017 American National Standard for Portable Cells and Batteries – Environmental

Relevant Rulemaking N/A

Standard(s) Update In March 2021, NEMA published ANSI C18.3M Part 2-2021, the latest revision to the *American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard*. This revision harmonizes with IEC 60086-4:2019, *Primary batteries - Part 4: Safety of lithium batteries*, and primarily addresses ingestion hazards (see next entry).

**Purpose** 

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

Activities

Staff participated in two NEMA/ANSI C18 Subcommittee on Portable Cells and Batteries meetings on December 2 and 3, 2020, and on March 24 and 25, 2021. During the December meeting, staff continued to advocate for adding a recommended practices guide (ANSI C18-5, part 2) for designers of lithium-ion battery products, to address the overheating and fires of lithium-ion battery products. The subcommittee also decided to change ANSI C18.5 Part 2 from an ANSI standard to a technical report (TR) and will continue drafting a report in working group meetings.

During the March meeting, staff initiated a discussion on recalled lithium batteries and their inclusion in ANSI C18.4. Staff is coordinating with the Department of Transportation and the Environmental Protection Agency to improve guidance for returning, shipping, and recycling recalled lithium battery products. Currently, ANSI C18.4 does not have any specific requirements for recalled lithium batteries.

**Next Action** 

Staff will continue to participate in NEMA, UL, IEEE, ASTM, and other pertinent meetings, to draft, revise, and harmonize requirements to eliminate or reduce overheating and fire hazards in high-energy density batteries. Staff will participate in a meeting on April 8, 2021, to continue developing the ANSI Technical Report, Recommended Practices Guide for Designers of Lithium-Ion Battery Products.

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## **Batteries, Ingestion (Button)**

Datteries,	ingestion (butt	.onj
Staff Contact	Le, Huy	
Voluntary Standard(s)	UL 1642, 5 <sup>th</sup> Edition	Standard for Safety for Lithium Batteries
Sumuru(s)	UL 4200A, 1 <sup>st</sup> Edition	Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies
	UL 60065, 8 <sup>th</sup> Edition	Standard for Audio, Video, and Similar Electronic Apparatus–Safety Requirements
	ANSI C18.1M Part 2-2017	American National Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard
	ANSI C18.2M Part 2-2014	American National Standard for Portable Rechargeable Cells and Batteries—Safety Standard
	ANSI C18.3M Part 2-2021	American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard
	ANSI C18.4M-2017	American National Standard for Portable Cells and Batteries
Relevant Rulemaking	N/A	
Standard(s) Update	revision to the America Cells and Batteries - 60086-4:2019, Prima add a "Keep out of re- hazards. The new revi	A published ANSI C18.3M Part 2-2021, the latest can National Standard for Portable Lithium Primary Safety Standard. This revision harmonizes with IEC ry batteries – Part 4: Safety of lithium batteries, and to ach" icon and warnings text to address battery ingestion ision includes requirements for the IEC pictogram, ging, and warning text for button cell packaging.

**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.

Activities

Staff participated in two NEMA/ANSI C18 Subcommittee on Portable Cells and Batteries meetings on December 2 and 3, 2020, and on March 24 and 25, 2021. The main C18 committee is waiting to see the balloted results of an IEC 60086-5:2016, *Primary Batteries – Part 5: Safety of batteries with aqueous electrolyte*, proposed draft on button cell packaging and warning labels for non-lithium button cells. Also, staff continues to support the ANSI recommendation to use "WARNING" when serious injury or death can be the outcome. "CAUTION" is used when minor or moderate injury is a likely outcome.

Staff participated in a button battery task force meeting on December 9, 2020. The task force's mission statement is: "a collaborative effort of representatives from relevant organizations in industry, medicine, public health and government to develop, coordinate and implement strategies to reduce the incidence of button battery injuries in children." During the meeting, staff updated members on recent ANSI C18 voluntary standards efforts. Staff also continued to advocate for the same labeling for non-lithium button cells, as used for lithium coin cells, which includes "WARNING serious injury or death" may occur. There have been deaths associated with ingestion of non-lithium button cell batteries and serious lifelong injuries are also a possible outcome if non-lithium cells are placed and lodge in other openings of the body.

**Next Action** 

Staff will continue to participate in NEMA, UL, ASTM, and other related meetings, to draft, revise, and harmonize requirements to eliminate or reduce battery-ingestion hazards.

## **Bedside Sleepers**

Staff Contact	Nesteruk, Hope	
Voluntary Standard(s)	ASTM F2906- 13(2019)	Standard Consumer Safety Specification for Bedside Sleepers
Relevant Rulemaking	16 CFR part 1222, Sa	fety Standard for Bedside Sleepers
Standard(s) Update	The voluntary and mathe reporting period.	andatory standards listed above were not updated during
Purpose	To work with ASTM	to ensure that the voluntary standard and the

corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with bedside sleepers.

Activities Staff had no voluntary standards activity associated with the product

category during the reporting period.

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

scheduled, and also will review incident data to ensure the continued

adequacy of the voluntary standard.

#### **Bicycles**

**Staff Contact** 

**Voluntary** ASTM F2793-14 Standard Specification for Bicycle Grips **Standard(s)** 

**Relevant** 16 CFR part 1512, Requirement for Bicycles **Rulemaking** 

Mella, Lawrence

Standard(s) The voluntary and mandatory standards listed above were not updated during the reporting period.

**Purpose** To develop new or revised ASTM voluntary standards to reduce or eliminate

hazards associated with bicycles and bicycle components.

Activities Staff had no voluntary standards activity associated with the product

category during the reporting period.

Next Action Staff will attend the next ASTM F08.10 and ASTM F08.96 meetings

scheduled for May 4, 2021.

#### **Booster Seats**

**Staff Contact** Kish, Celestine

Voluntary ASTM F2640-18 Standard Consumer Safety Specification for Booster Seats

Relevant Rulemaking	16 CFR part 1237, Safety Standard for Booster Seats
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with booster seats.
Activities	To monitor the adequacy of the mandatory standard and its referenced voluntary standard, staff conducted the annual review of incident data associated with booster seats in March 2021. Staff did not identify any new hazard patterns since the last review.
Next Action	Staff will report the results of the incident data review to ASTM, and staff

will participate in the next ASTM subcommittee meeting when it is

#### **Candles and Candle Accessories**

scheduled.

Staff Contact	Ayers, Scott	
Voluntary Standard(s)	ASTM F2326- 04(2021)	Standard Test Method for Collection and Analysis of Visible Emissions from Candles as They Burn
	ASTM F2058- 07(2021)	Standard Specification for Candle Fire Safety Labeling
	ASTM F2417-17	Standard Specification for Fire Safety for Candles
	ASTM F2601-18	Standard Specification for Fire Safety for Candle Accessories
	ASTM F2179-20	Standard Specification for Annealed Soda-Lime- Silicate Glass Containers that Are Produced for Use as Candle Containers
	ASTM F1972-19	Standard Guide for Terminology Related to Candles and Associated Accessory Items

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

Standard(s) Update In February 2021, ASTM reapproved, without change, ASTM F2326-04, Standard Test Method for Collection and Analysis of Visible Emissions from Candles as they Burn and ASTM F2058-07, Standard Specification for Candle Fire Safety Labeling.

**Purpose** 

To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing hazards associated with candles and candle accessories.

Activities

On December 2, 2020 staff provided the ASTM F15.45 subcommittee candle incident data. Staff participated in four task group meetings on December 15, 2020, January 22, 2021, February 12, 2021, and March 12, 2021, in which the task group analyzed candle incident data. The first task group meeting categorized the data based on the narratives, and during the later meetings, the task group additionally analyzed the data.

Staff also participated in the quarterly subcommittee meeting January 26, 2021, during which the members reviewed recent recalls and reports on SaferProducts.gov and from other sources. The subcommittee meets four times a year to review recent recalls and reports in an effort to determine if the ASTM standards address the identified issue and to discuss gaps in the requirements that may need to be addressed.

**Next Action** 

Staff will participate in a quarterly review of recent candle related recalls and reports meeting on April 20, 2021, a data task group meeting on June 4, 2021, and a fire safety task group meeting in September 2021, to discuss possible requirement changes or additions to the ASTM standards.

## Carbon Monoxide (CO) Alarms

Staff Contact Brookman, Matthew

Voluntary Standard(s)

Rulemaking

UL 2034, 4th Edition Single and Multiple Station Carbon Monoxide Alarms

NFPA 72, 2019 National Fire Alarm and Signaling Code

Edition

**Relevant** N/A

Standard(s) Update The voluntary standards listed above were not updated during the reporting

date period.

**Purpose** To work with UL, NFPA, and other stakeholders on potential revisions to

voluntary standards and codes to strengthen safety provisions addressing

hazards mitigated by carbon monoxide alarms.

**Activities** Staff continues to work with the contractor on the Smoke and CO Alarm

Survey. Biweekly meetings are held among the contractor, staff, and the main sponsors of the survey (NFPA and NIST), to discuss various strategies

to restart the survey in 2021, and to track the progress of the survey.

**Next Action** Staff will continue working with the contractor to complete the Smoke and

CO alarms survey and provide the survey to interested stakeholders, when

available. Staff will continue working with UL, NFPA, and other

stakeholders on CO alarms and safety.

comment or vote on the ballot item.

## **Carriages and Strollers**

Staff Contact	Talcott, Kristen	
Voluntary Standard(s)	ASTM F833-19	Standard Consumer Safety Specification for Carriages and Strollers
Relevant Rulemaking	16 CFR part 1227, Safety Standard for Carriages and Strollers	
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with carriages and strollers.	
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.	
	revise the parking brak	0, ASTM issued an F15 ballot containing an item to see requirements for the carriage and stroller standard. negative votes and one comment. Staff did not

Staff will participate in the next ASTM subcommittee meeting, when

scheduled.

**Next Action** 

## **Changing Products**

Staff Contact	Nesteruk, Hope	
Voluntary Standard(s)	ASTM F2388-18 Standard Consumer Safety Specification for Baby Changing Products for Domestic Use	
Relevant Rulemaking	16 CFR part 1235, Safety Standard for Baby Changing Products	
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with baby changing products.	
Activities	In March 2021, staff reviewed and analyzed incident data associated with baby changing products. Staff found five new incidents since the last review and no new hazard patterns. Staff shared this information with ASTM on March 9, 2021.	
Next Action	Staff will participate in the next ASTM subcommittee meeting in May 2021.	

## **Child-Resistant Packages (CRP)**

Staff Contact	Eilbert, Mark	
Voluntary Standard(s)	ASTM D3475-20	Standard Classification of Child-Resistant Packages
	ASTM F17-20	Standard Terminology Relating to Primary Barrier Packaging
	ASTM F3375-19	Standard Test Method for Assessing Non-Metered Restricted Delivery Systems for Liquid Consumer Products
Relevant Rulemaking	16 CFR part 1700, Pc	oison Prevention Packaging

Standard(s) Update

The voluntary and mandatory standards listed above were not updated during

the reporting period.

**Purpose** 

To work with ASTM on package design and development to ensure the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with child-

resistant packaging.

Activities

Staff participated in the ASTM F02 subcommittee meetings on October 28, 2020, in which members discussed several standards requiring review, including many in the medical and food industries, that address flexible packaging. A work item was announced for a new standard to address the relationship between primary barrier packaging material attributes and

performance.

**Next Action** 

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

April 2021.

## **Children's Folding Chairs and Stools**

Staff Contact	Lee, Kevin	
Voluntary Standard(s)	<b>ASTM F2613-21</b>	Standard Consumer Safety Specification for Children's Chairs and Stools
Relevant Rulemaking	16 CFR part 1232, Sa	afety Standard for Children's Folding Chairs and Stools
Standard(s) Update	In February 2021, ASTM published ASTM F2613-21, the latest revision to the <i>Standard Consumer Safety Specification for Children's Chairs and Stools</i> . This revision updates the scope to include children's ottomans and to exclude infant and toddler rockers, which are covered under a different voluntary standard. In addition, this revision contains an editorial change to remove an extraneous test method.	
Purpose	corresponding federa	to ensure that the voluntary standard and the lamendatory standard maintain adequate safety levels essociated with children's folding chairs and stools.
Activities	<b>-</b>	220, ASTM issued a ballot containing an item to revise ntary standard to clarify that the scope does not include

toddler rockers. In October 2020, the ballot results indicated that this ballot

item had a negative vote, but it was subsequently withdrawn.

On November 10, 2020, staff participated in the ASTM subcommittee meeting, where the attendees discussed the recent ballot results, and a task group on children's ottomans was formed. In addition, staff raised an issue in the current standard in which a test procedure was erroneously duplicated during the last revision. The subcommittee agreed it needed a ballot item to correct the issue.

On December 4, 2020, staff participated in the new ottoman task group meeting, and the task group agreed to add ottomans to the standard's scope.

On December 17, 2020, ASTM issued an F15 ballot containing two items for F2613: the removal of the extraneous test method, and a scope clarification regarding children's ottomans. Both items passed.

In February 2021, ASTM published a revised version of F2613, and pursuant to section 104(b)(4)(B) of the CPSIA, ASTM notified the CPSC of this revision on February 22, 2021.

Next Action

Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2021, and will submit a briefing package to the Commission containing staff recommendations regarding the update of F2612 and the direct final rule to update 16 CFR 1232.

## **Clothes Dryers**

Staff Contact	Lee, Arthur
Voluntary Standard(s)	UL 2158, 5 <sup>th</sup> Edition Standard for Electric Clothes Dryers
Relevant Rulemaking	N/A
Standard(s) Update	The voluntary standard listed above was not updated during the reporting period.
Purpose	To work with UL to revise the voluntary standard to strengthen its safety provisions addressing the hazards associated with clothes dryer fires.
Activities	During the reporting period, staff began an evaluation program looking for any gaps in the current fire containment test in the voluntary standard. As of the end of the reporting period, this evaluation is not complete. The COVID-19 pandemic has delayed the testing portion of the evaluation.

#### Next Action

Staff will continue the testing portion of the evaluation. Once completed, staff will summarize the findings of the evaluation and provide the summary to the UL 2158 STP.

## **Clothing Storage Units Tip Overs**

Staff Contact	Talcott, Kristen	
Voluntary Standard(s)	ASTM F2057-19	Standard Safety Specification for Clothing Storage Units
	ASTM F3096-14	Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)
Relevant Rulemaking	The Commission published an advance notice of proposed rulemaking (ANPR) in November 2017 (82 FR 56752, Nov. 30, 2017).	
Standard(s) Update	The voluntary standards and ANPR were not updated during the reporting period.	
Purpose	To work with ASTM to revise the voluntary standard to strengthen its safety provisions addressing the hazards associated with furniture tip-over incidents.	
Activities	F15.42 subcommittee containing revisions t	ASTM issued an F15 main committee ballot and an ballot. Between the ballots, there were five items to various sections of ASTM F2057-19: warning all literature, stability testing, test figures, and test

During the reporting period, staff participated in several ASTM task group meetings that discussed potential revisions to the voluntary standard:

weight. All but the latter two had persuasive negative votes and were removed from the ballot. The two items that passed are currently on hold

• October 1, 2020: Labeling task group

pending future balloting of other revisions.

- October 23, 2020: Loaded and Multiple Drawers task group
- December 2, 2020: Scope task group
- December 9, 2020: Scope task group
- January 26, 2021: Loaded and Multiple Drawers task group
- March 11, 2021: Scope task group

Staff also participated in the subcommittee meeting on November 12, 2020. During the meeting, the October ballot results were reviewed, and various

task groups provided updates. Staff provided an update regarding the contractor work on furniture tip-overs.

On December 17, 2020 ASTM issued another F15 ballot containing an item to reapprove ASTM F3096 without changes. That ballot item received one negative vote that remained unresolved at the close of the reporting period.

In January 2021, staff issued a report entitled, *Product Instability of Tip-Over Injuries and Fatalities Associated with Televisions, Furniture and Appliances: 2020 Report* and notified the subcommittee.

Staff also participated in ISO TC 136 meetings during the reporting period on February 26, 2021, and March 19, 2021. During the meetings, the work group members discussed comments and edits to the draft standard, ISO/DIS 7170 Furniture – Storage Units – Test methods for the determination of strength, durability, and stability.

**Next Action** 

ASTM issued a ballot on April 1, 2021, which contained two items for ASTM F2057: a revision to the stability test to clarify the most onerous position for doors, and a revision to the scope regarding dresser heights. Staff will review the results of the ballot and attend the next subcommittee meeting scheduled for May 2021.

#### **Commercial Cribs**

Staff Contact	Nesteruk, Hope		
Voluntary Standard(s)	ASTM F2710-19 Standard Consumer Safety Performance Specification for Commercial Cribs		
Relevant Rulemaking	16 CFR part 1219, Safety Standard for Full-Size Cribs, and CFR part 1220, Safety Standard for Non-Full-Size Baby Cribs		
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.		
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with cribs in commercial settings, such as hotels and child care centers.		
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.		

Next Action

Staff will conduct an annual review of incident data associated with commercial cribs and communicate the results to the ASTM subcommittee. Staff will also participate in the next subcommittee or task group meeting, when scheduled.

## **Crib Bumpers (Infant Bedding)**

Staff Contact	Smith, Tim	
Voluntary Standard(s)	ASTM F1917-20 Standard Consumer Safety Performance Specification for Infant Bedding and Related Accessories	
Relevant Rulemaking	16 CFR part 1240, Safety Standard for Crib Bumpers/Liners (Proposed Rule)	
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM on revising the voluntary standard to: (1) strengthen its safety provisions addressing hazards, and (2) form the basis of a federal standard intended to reduce hazards associated with crib bumpers.	
Activities	Staff attended a task group meeting on February 17, 2021 where the objective was to focus on possible changes to ASTM F1917 that would bring it and the proposed rule into closer alignment. Staff updated the task group with the current timeframe related to the Final Rule.	
	On March 31, 2021, staff participated in a meeting where the airflow task group met to discuss the development of an airflow requirement for crib bumpers.	
Next Action	Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2021. Staff will also deliver a final rule briefing package to the Commission in September 2021.	

# **Crib Mattresses (including Supplemental and Aftermarket Mattresses)**

Staff Contact Nesteruk, Hope

Voluntary Standard(s)

Relevant

Rulemaking

ASTM F2933-19 Standard Consumer Safety Performance Specification for Crib Mattresses

Det

Petition CP 15-2: Petition Requesting Ban on Supplemental Mattresses for Play Yards with Non-Rigid Sides

NPR, Safety Standard for Crib Mattresses (85 FR 67906)

Standard(s) Update The NPR for the *Safety Standard for Crib Mattresses* was published in the *Federal Register* (85 FR 67906) on October 26, 2020.

**Purpose** 

To work with ASTM to revise the voluntary standard to: (1) strengthen its safety provisions addressing hazards, and (2) form the basis of a federal standard intended to reduce hazards associated with crib and supplemental mattresses.

Activities

The NPR for crib mattresses was published in the *Federal Register* on October 26, 2020. Staff has reviewed the submitted comment in preparation for drafting a final rule briefing package.

Staff participated in the ASTM subcommittee meeting on November 10, 2020. During the meeting, staff reported on the NPR and provided a link to regulations.gov, reminding the subcommittee that the comment period ends on January 11, 2021. Staff also answered questions from subcommittee members about the NPR content.

Staff also participated in the following task group meetings during the reporting period:

- Corner Gap Task Group on December 3, 2020 and February 25, 2021
- Cyclic Testing Task Group on December 8 and 9, 2020 and March 4, 2021
- Non-Segmented Aftermarket Mattresses on December 18, 2020
- Mattress Firmness on February 10, 2021.

Staff participated in another subcommittee meeting held on February 16, 2021, where the task groups all provided updates.

On March 12, 2021, ASTM issued an F15 ballot containing two items pertaining to ASTM F2933-19. A member of CPSC's Human Factor's Directorate subsequently received authorization to vote on the ballot items.

Next Action

Staff will cast a vote on the recent ballot items and participate in the next ASTM subcommittee meeting scheduled for April 22, 2021.

#### **Electric Heaters**

**Staff Contact** Lee, Arthur

Voluntary Standard(s) UL 1278, 4th Edition Standard for Movable and Wall-or Ceiling-Hung

Electric Room Heaters

Relevant Rulemaking N/A

Standard(s) Update The voluntary standard listed above was not updated during the reporting

period.

**Purpose** To work with UL to address hyperthermia deaths caused by portable and

room heaters

Activities Arthur Lee serves as the UL 1042 STP chair for the hyperthermia task group.

Staff chaired and participated in five hyperthermia task group meetings on October 1, 2020, October 29, 2020, December 10, 2020, February 2, 2021, and March 15, 2021. The task group's objective is to develop proposals for portable heaters in UL 1278 to address incidents of hyperthermia from use of portable electric heaters in small rooms. Staff raised this issue to UL in response to the March 2019 staff report, "A Preliminary Analysis of Hyperthermia Deaths Associated with Electric Room/Space Heaters." The task group is focusing on proposals for labeling and educational campaigns because the task group determined that the number of incidents per year (2 or less) do not warrant any new performance requirements at this time. The task group agreed that heaters rated at 850 W or more require hyperthermia labeling. This number is based on staff testing showing that an 868 W heater can raise the temperature from 70 F to 100 F in a 490 FT<sup>3</sup> room.

Staff also participated in a labeling sub-task group meeting on October 22, 2020 where possible labeling requirements were discussed.

Next Action

Staff will continue to lead the task group and actively participate in developing proposals to UL 1278 to address the risk of hyperthermia. The next task group meeting is planned for May 2021.

## Fire Safety of Portable Fuel Containers and Gasoline Cans

**Staff Contact** Avers, Scott

Voluntary	V
Standard	(s)

**ASTM** Standard Specification for Performance of Flame F3429/ASTM Mitigation Devices Installed in Disposable and Pre-F3429M-20

Filled Flammable Liquid Containers

ASTM F852/ASTM Standard Specification for Portable Gasoline

Kerosene, and Diesel Containers for Consumer Use F852M-20

ASTM F3326-19a Standard Specification for Flame Mitigation Devices

on Portable Fuel Containers

ASTM F839-15 Standard Specification for Cautionary Labeling of

Portable Gasoline, Kerosene, and Diesel Containers

for Consumer Use

UL30, 9<sup>th</sup> Edition Standard for Metal Safety Cans

#### Relevant Rulemaking

Portable Fuel Container Safety Act of 2020 (Pending Commission Decision)

#### Standard(s) **Update**

The voluntary and mandatory standards listed above were not updated during the reporting period.

#### **Purpose**

To work with ASTM and UL to improve or develop fire safety requirements for flame mitigation devices in various type of portable fuel containers, such as gasoline containers.

#### Activities

Staff participated in two ASTM F15.10 task group meetings on possible revisions to gasoline container labeling requirements in ASTM F839, one on October 8, 2020, and the other on October 29, 2020. The task group is interested in updating the labeling on gasoline containers and harmonizing labeling requirements with Canada. Staff provided comments to the task group on the proposed changes.

Staff participated in four UL 30 STP meetings on November 17, 2020, December 7, 2020, February 4, 2021, and February 23, 2021. The UL 30 STP is preparing a new draft UL 30 joint standard, which incorporates requirements from the current UL 30, UL 1313, and ULC ORD-30 voluntary standards addressing safety cans, a type of portable flammable liquid container. The new draft of the UL 30 joint standard will include requirements for flame mitigation devices. Staff also participated in five UL 30 task group meetings on February 11, 2021, March 4, 2021, March 11, 2021, March 19, 2021, and March 26, 2021. This task group is developing the proposed requirements for flame mitigation devices. Staff proposed developing a test protocol for safety cans, based on ASTM F3429, with preconditioning samples before testing, similar to ASTM F3326.

In September 2020, CPSC executed a contract to perform a modified round-robin study of the test protocol in ASTM F3429. The contractor is conducting the work in FY 2021 and subcontracting with two other laboratories to perform the testing specified in F3429 on the same samples and to compare results.

ASTM appointed a new F15.72 subcommittee chair in December 2020. Staff participated in two ASTM F15.72 subcommittee meetings on December 17, 2020, and February 17, 2021. The subcommittee discussed the scope of the subcommittee, the current standards, and the draft standard. The subcommittee was initially formed to develop requirements related to the ingestion of torch fuel and lamp oil. Over time, portable fireplaces and flame-mitigation devices were added to the subcommittee activities. The subcommittee members in the meeting discussed broadening the scope of the subcommittee, but not changing the scope of the current standards and draft standard. On March 11, 2021, ASTM balloted a name change for the subcommittee to "Prefilled Flammable and Combustible Liquid Containers."

In December 2020, the Portable Fuel Container Safety Act of 2020 was enacted, requiring the CPSC to promulgate a final rule, mandating flame mitigation devices, in portable fuel containers. The Act requires that the rule be published no later than 30 months after the date of enactment of this Act, unless the Commission determines that a voluntary standard for a class of portable fuel container exists and is in effect 18 months after the date of enactment of this Act (June 2022).

**Next Action** 

Staff will continue to work with ASTM F15.10 on possible revisions to F839; staff will also work with ASTM F15.10 on possible revisions to for flame mitigation requirements or other fire safety requirements in ASTM F852 and ASTM F3326. Staff will continue to work with UL 30 in developing flame mitigation requirements for the next edition of UL 30. Staff will provide the results of the modified round-robin testing to ASTM after the work is completed. Staff intends to seek to renew internal permission to chair the F3429 task group and to secure voting rights on applicable gasoline container standards.

#### **Fireworks**

**Staff Contact** Valliere, Rodney

Voluntary Standard(s) **APA 87-1A, 2018 Version** 

Standard for Construction, Classification, Approval, and Transportation of Consumer Fireworks AFSL 101 – 115, February AFSL Standards for Consumer Fireworks 2019

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

Standard(s) Update

On December 28, 2020, APA finalized APA 87-1A, the new *Standard for Construction, Classification, Approval, and Transportation of Consumer Fireworks*, following action by the U.S. DOT. Previously, all fireworks requirements were contained in APA 87-1, 2001. Now APA has three separate standards covering consumer fireworks (APA 87-1A): (1) display fireworks (APA 87-1B), (2) entertainment, and (3) technical pyrotechnics (APA 87-1C).

**Purpose** 

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

Activities

Staff had no voluntary standards activity associated with the product category during the reporting period.

The U.S. DOT published a final rule in November 2020 (85 Fed. Reg. 75680 (Nov. 25, 2020), incorporating by reference APA 87-1A (Jan. 1, 2018 edition), but excluding Appendices II through VI, to replace the previous incorporation by reference of APA 87-1 (2001). The same rule incorporated by reference APA 87-1B and C, as well. APA 87-1A contains requirements for consumer fireworks, the other two standards (B and C) pertain to other types of fireworks.

Next Action

Staff will participate in the AFSL virtual meeting on April 15, 2021. Staff will continue to participate in APA.

## Flammable Refrigerants

Staff Contact Ayers, Scott

Voluntary UL/CSA 60335-2-Standard(s) 24, 2<sup>nd</sup> Edition

Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers UL/CSA 60335-2-40, 3<sup>rd</sup> Edition

Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers

UL/CSA 60335-2-89, 1st Edition

Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor

ASHRAE 15 Safety Standard for Refrigeration Systems

ASHRAE 15.2P Potential new voluntary standard for refrigeration

systems in residential applications

Relevant Rulemaking N/A

Standard(s)
Update

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

**Purpose** 

To work with SDOs to revise the voluntary standards to strengthen the safety provisions addressing hazards associated with flammable refrigerants (also known/marketed as "low global warming potential refrigerants" and "natural refrigerants") used in household refrigerators, freezers, and air conditioners.

Activities

Staff participated in three meetings on October 2, 2020, October 21, 2020, and November 11, 2020, looking at gaps and inconsistencies among three flammable refrigerant standards, ASHRAE Standard 15, the draft new ASHRAE Standard 15.2P, and UL/CSA 60335-2-40.

Staff participated in one meeting on the draft new ASHRAE Standard 15.2P on January 26, 2021. The committee updated the participants on the status of the draft standard, sharing that the third Publication Public Review (PPR) would be sent out within a month. On February 23, 2021 ASHRAE released the third PPR for the draft ASHRAE Standard 15.2P.

Staff participated in nine meetings focused on revising the current edition of UL/CSA 60335-2-40 on October 12, 2020, October 19, 2020, November 2, 2020, November 16, 2020, November 30, 2020, January 11, 2021, February 1, 2021, February 22, 2021, and March 8, 2021. UL received more than 180 proposed changes to the current edition. The group aims to complete the revision in time for the next mechanical code cycle. To meet this timeline, the first preliminary public review needs to occur by September 2021. Staff supports a proposal by groups representing fire fighters and similar fire services to change the safety symbols.

Staff participated in two meetings focused on revising the current edition of UL/CSA 60335-2-24, on February 22, 2021, and March 23, 2021. The fire service made similar proposals to this group on the required safety symbols as with UL/CSA 60335-2-40. Staff also supports this change in this standard.

Staff participated in one Safe Refrigerant Transition Task Force (SRTTF) meeting on December 11, 2020. This group was originally formed to educate stakeholders on the transition to flammable refrigerants through a variety of methods, but it has evolved to a group focused on outreach to the fire service.

Staff participated in a meeting with ASHRAE, held over 3 days regarding possible odorants in flammable refrigerants. The meetings were held on January 25, 2021, January 26, 2021, and February 1, 2021. During the meetings, staff informed ASHRAE of the CPSC contract to research possible odorants in flammable refrigerants. The CPSC contract is intended to complement other research ASHRAE is conducting on possible odorants in flammable refrigerants.

**Next Action** 

Staff continues to participate in developing codes and voluntary standards intended to allow greater quantities of flammable refrigerants in refrigeration and HVAC equipment. Staff intends to continue participating in industry meetings related to revising UL/CSA 60335-2-24, UL/CSA 60335-2-40, UL/CSA 60335-2-89, and ASHRAE Standard 15.2P. Staff intends to comment on the Publication Public Review of ASHRAE Standard 15.2P. Staff will work with the contractor to study the compatibility of possible flammable refrigerants with various odorants, lubricants, and metal hardware.

## Flooring (Slips, Trips, and Falls)

Staff Contact	Bowley, Susan	
Voluntary Standard(s)	ASTM F2508-16e <sup>1</sup>	Standard Practice for Validation, Calibration, and Certification of Walkway Tribometers Using Reference Surfaces
	ASTM WK60578	Potential new voluntary standard test method for walkway friction testing
Relevant Rulemaking	Petition CP 16-1, Labeling Requirements Regarding Slip Resistance of Floor Coverings (Denied) and Petition CP 18-2 Floor Coverings (Denied)	

Standard(s)
Update

The voluntary standards and the petitions listed above were not updated during the reporting period.

**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.

**Activities** 

The NFSI B101 committee develops multiple standards related to flooring safety. As part of the continued efforts derived from the floor surface labeling petition, to develop our understanding of floor safety, staff participated in a floor surface standard development meeting on January 29, 2021. This was the first time CPSC staff participated with the NFSI B101 committee. The committee discussed the status and updates on their existing standards. Various materials were mentioned during the meeting, such as the human ambulation study, as well as a NIOSH publication referencing the B101.1 standard. Staff will review these materials to increase our understanding of floor surface safety.

On February 2, 2021, staff participated in an ASTM F13 meeting, in which updates on the development of subcommittee standards were discussed. The subcommittee is actively researching tile testing and writing and reviewing human subject data research for future publication in an ASTM journal. The subcommittee also discussed how various tribometers provide different output values and how the value of a specific device is unique to that device and setup.

**Next Action** 

Staff will participate in the next NFSI B101 and ASTM F13 committee meetings, when scheduled.

#### Frame Child Carriers

Staff Contact Lee, Kevin Standard Consumer Safety Specification for Frame **Voluntary** ASTM F2549-14a Standard(s) Child Carriers Relevant 16 CFR part 1230, Safety Standard for Frame Child Carriers Rulemaking The voluntary and mandatory standards listed above were not updated during Standard(s) the reporting period. **Update** To work with ASTM to ensure that the voluntary standard and the **Purpose** corresponding federal mandatory standard maintain adequate safety levels

addressing hazards associated with frame child carriers.

Activities

Staff participated in two ASTM task group meetings on October 6, 2020, and November 2, 2020, as well as the semi-annual ASTM subcommittee meeting held on November 9, 2020. During the meetings, incident data supplied by staff, were reviewed. In addition, the members of tasks groups working on ad hoc warnings language and stability, discussed and reviewed proposals for new ballot items. At the close of the reporting period, no ballot items for frame child carriers had been issued.

Next Action

Staff will participate at the subcommittee meeting scheduled for May 2021.

#### **Full-Size Cribs**

Staff Contact	Nesteruk, Hope		
Voluntary Standard(s)	ASTM F1169-19 Standard Consumer Safety Specification for Full-Size Cribs		
Relevant Rulemaking	16 CFR part 1219, Safety Standard for Full-Size Cribs		
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.		
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.		
Activities	Staff participated in the ASTM subcommittee meeting on November 10, 2020. A subcommittee member raised a question about a certain type of toe hold on ornamental pieces outside the crib bars that could form a non-horizontal toe hold. A task group was formed to look at the issue, and staff joined the task group.		
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The toe hold task group meet on January 6, 2021. The purpose of the meeting was to discuss the use of the word "horizontal" with respect to toe holds. The goal was to consider deleting "horizontal," which is viewed to be subjective and may not address all toe holds. The task group chair discussed international standards, none of which use "horizontal." Staff reviewed pictures of various crib designs with non-horizontal toe holds and agreed to talk with staff test engineers for input.

#### **Next Action**

Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2021. Staff will also provide input from test engineers for the toe hold task group.

# **Gas Appliances, CO Sensors**

Staff Contact	Jordan, Ronald	
Voluntary Standard(s)	ANSI Z21.47-2016/ CSA 2.3-2016)	Gas-Fired Central Furnaces
	ANSI Z21.13-2017/ CSA 4.9-2017	Gas-Fired Low Pressure Steam and Hot Water Boilers
	ANSI Z21.86-2016/ CSA2.32-2016	Vented Gas-Fired Space Heating Appliances
Relevant Rulemaking	The Commission published an ANPR for Performance Requirements for Residential Gas Furnaces and Boilers, in the <i>Federal Register</i> on August 19, 2019 (84 FR 42847).	
Standard(s) Update	The voluntary standards and the ANPR listed above were not updated during the reporting period.	
Purpose	To work with technical committees on revising the voluntary standards to strengthen safety provisions addressing hazards associated with carbon monoxide risks due to failure modes, such as disconnected vents and partially blocked vents.	
Activities	Staff continued to monitor the relevant voluntary standards for any revisions that would strengthen or weaken protection from CO exposure risks. Staff continued to develop briefing package materials for the NPR for Performance Requirements for Residential Gas Furnaces and Boilers and to manage two contracts that support that effort.	
Next Action	of the NPR and related C	ntary standard bodies, if appropriate, on the status PSC activities later in the fiscal year. Staff will rticipate with CSA and any other SDOs interested d CO sensors.

#### **Gas Ranges**

**Staff Contact** Ayers, Scott

**Voluntary** ANSI Z21.1-2016/ Household Cooking Gas Appliances

Standard(s) CSA 1.1-2016

Relevant N/A

Rulemaking

Standard(s)

The voluntary standard listed above was not updated during the reporting

**Update** period.

**Purpose** To work with CSA to revise the voluntary standard to strengthen its safety

provisions and to ensure that the voluntary standard addresses hazards

associated with gas ranges.

Activities Scott Ayers continues to serve as the CSA TSC chair for domestic gas

ranges.

Staff chaired and participated in a CSA TSC meeting on December 10, 2021. During this meeting, staff informed the TSC that gas range incident data for the TSC to review should be available in 2021. The chair of the CSA Manual Valve TSC, who is also a member of the Gas Range TSC, requested that the

data be shared with the Manual Valve TSC.

On January 8, 2021, staff provided the CSA TSC with the gas range incident

data, covering incidents from November 1, 2015 through October 31, 2019.

Staff will continue to chair and participate in the TSC meetings. Staff will **Next Action** 

> work with the TSC to establish a task group to categorize and possibly analyze the incident data. Staff will seek to renew internal permission to

continue to serve as TSC chair.

#### **Gasoline Containers, Child Resistance**

Staff Contact Ayers, Scott

**Voluntary** ASTM F2517-17 Standard Specification for Determination of Child Standard(s)

Resistance of Portable Fuel Containers for Consumer

Use

ASTM F852/ Standard Specification for Portable Gasoline ASTM F852M-20 Kerosene, and Diesel Containers for Consumer Use

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

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

**Purpose** 

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

Activities

Staff had no voluntary standards activity associated with the product category during the reporting period.

Next Action

Staff will participate in a subcommittee meeting expected to occur in summer 2021. Staff will participate in a task group empaneled to work on revising the adult testing requirements of F2517, when scheduled. Currently, this adult testing task group activity is not expected to begin before October 2021, when task group members are able to travel.

## **Gates and Expandable Enclosures**

Staff Contact	Nesteruk, Hope	
Voluntary Standard(s)		tandard Consumer Safety Specification for Expansion Gates and Expandable Enclosures
Relevant Rulemaking	16 CFR part 1239, Safety Standard for Gates and Enclosures	
Standard(s) Update	The final rule, <i>Safety Standard for Gates and Enclosures</i> , 16 CFR part 1239 will be effective on July 6, 2021. ASTM did not update the voluntary standard during the reporting period.	
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with expansion gates and expandable enclosures.	
Activities	Staff had no voluntary s	tandards activity associated with the product

category during the reporting period.

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

May 2021.

# **Hand-Held Infant Carriers**

Staff Contact	Nesteruk, Hope	
Voluntary Standard(s)	ASTM F2050-19 Standard Consumer Safety Performance Specification for Hand-Held Infant Carriers	
Relevant Rulemaking	16 CFR part 1225, Safety Standard for Hand-Held Infant Carriers	
Standard(s) Update	The direct final rule to update the corresponding federal regulation, 16 CFR part 1225, <i>Safety Standard for Hand-Held Infant Carriers</i> , to incorporate by reference ASTM F2050-19, became effective on January 1, 2021.	
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.	
Activities	On December 23, 2020, staff participated in a task group meeting dealing with the slip-resistance test procedure. The chair began the meeting by stating that one of the test labs brought up the issue that there appear to be some inconsistencies in the slip-resistance testing. The group agreed to create a questionnaire on the test procedure for the labs to answer regarding surfaces and cleaning. Staff will participate in the questionnaire. Once the chair has information from the test labs, the group will review the results and identify factors that need to be addressed for consistency.	
Next Action	Staff will participate in the task group and also in the next ASTM subcommittee meeting, when scheduled.	

# **High Chairs**

Staff Contact Marques, Stefanie

Voluntary Standard(s) ASTM F404-20 Standard Consumer Safety Specification for High Chairs

Relevant Rulemaking 16 CFR part 1231, Safety Standard for High Chairs

Standard(s) Update In December 2020, ASTM published ASTM F404-20, the latest revision to the *Standard Consumer Safety Specification for High Chairs*. This revision includes revisions to the stability requirement for reclining high chairs.

**Purpose** 

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

Activities

Staff participated in the ASTM subcommittee for high chairs on November 9, 2020. During the meeting, the subcommittee chair announced that the negatives on previous ballot items pertaining to reclining high chairs have been resolved and that the revised standard would be published in December 2020. In addition, a number of new business items were discussed during the subcommittee meeting, including new figures for the reclined seat high chair stability testing procedure. Staff and the group agreed that the revisions added clarity to the new test methods, but they could be further improved. Therefore, a task group was formed to revise the figures, and staff will participate. The task group will also look at the terminology for restraint systems. The subcommittee also discussed a test method for placement of test weights for forward and rearward stability in high chairs that have different seat designs. A task group was formed to address this issue, and staff will participate.

In December 2020, ASTM approved a revised version of F404, which was published in January 2021. Pursuant to section 104(b)(4)(B) of the CPSIA, on January 4, 2021, ASTM notified CPSC of this revision.

On March 17, 2021, staff sent to the Commission a briefing package, recommending that the Commission accept the revised voluntary standard, and issue a direct final rule updating the reference to the ASTM voluntary standard cited in the high chair standard 16 CFR part 1231. On March 23, 2021, the Commission voted unanimously (4-0) to approve publication of a *Federal Register* notice to issue a direct final rule to update the ASTM standard incorporated by reference in the Safety Standard for High Chairs, codified at 16 CFR part 1231.

Next Action

The *Federal Register* notice for the direct final rule was published on April 2, 2021. The rule is effective on July 3, 2021, unless CPSC receives a significant adverse comment. Staff will participate in the next ASTM high

#### **Infant Bath Seats**

Staff Contact	Kish, Celestine
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**Voluntary** Standard Consumer Safety Specification for Infant ASTM F1967-19

Standard(s) **Bath Seats** 

Relevant 16 CFR part 1215, Safety Standard for Infant Bath Seats Rulemaking

The voluntary and mandatory standards listed above were not updated during Standard(s)

**Update** the reporting period.

**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.

Activities To monitor the adequacy of the mandatory standard and its referenced

> voluntary standard, staff conducted the annual review of incident data associated with bath seats in March 2021, and communicated the results to ASTM. Staff did not identify any new hazard patterns for this product since

the last review.

Next Action Staff will supply incident data on infant bath seats to the ASTM

subcommittee and will participate in the next subcommittee or task group

meeting, when scheduled.

#### **Infant Bath Tubs**

Kish, Celestine Staff Contact

**Voluntary** ASTM F2670-18 Standard Consumer Safety Specification for Infant

Bath Tubs Standard(s)

16 CFR part 1234, Safety Standard for Infant Bath Tubs

Relevant Rulemaking

Standard(s) The voluntary and mandatory standards listed above were not updated during

the reporting period. **Update** 

**Purpose** To work with ASTM to ensure that the voluntary standard and the

corresponding federal mandatory standard maintain adequate safety levels

addressing hazards associated with infant tubs.

Activities To monitor the adequacy of the mandatory standard and its referenced

voluntary standard, staff conducted the annual review of incident data associated with infant bath tubs in March 2021, and staff communicated the results to ASTM. Staff did not identify any new hazard patterns for this

product since the last review.

**Next Action** Staff will provide incident data on infant bath tubs to the ASTM

subcommittee and will participate in the next ASTM subcommittee meeting,

when scheduled.

#### **Infant Bouncer Seats**

Staff Contact

Voluntary ASTM F2167-19 Standard Consumer Safety Specification for Infant

Standard(s) Bouncer Seats

Wanna-Nakamura, Suad

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

Standard(s) The voluntary and mandatory standards listed above were not updated during

*Update* the reporting period.

**Purpose** To work with ASTM to ensure that the voluntary standard and the

corresponding federal mandatory standard maintain adequate safety levels

addressing hazards associated with infant bouncer seats.

Activities Staff had no voluntary standards activity associated with the product

category during the reporting period.

**Next Action** Staff will review incident data associated with infant bouncers and attend the

next subcommittee meeting, when scheduled.

# **Infant Inclined Sleep Products**

**Staff Contact** Kish, Celestine

Voluntary Standard(s)	ASTM F3118-17a Standard Consumer Safety Specification for Infant Inclined Sleep Products		
Relevant Rulemaking	Supplemental NPR Safety Standard for Infant Sleep Products (84 FR 60949)		
Standard(s) Update	The voluntary standard and the SNPR listed above were not updated during the reporting period.		
Purpose	To work with ASTM on revising the voluntary standard to strengthen its safety provisions addressing hazards to form the basis of a federal standard intended to reduce hazards associated with infant sleep products.		
Activities	Staff participated in the ASTM subcommittee meeting held on November 10, 2020. During the meeting, staff provided an update on the SNPR. Also, during the meeting, the Title/Scope, Labeling and Other Juvenile Products task group provided updates.		
	In December 2020, ASTM issued an F15.18 Subcommittee ballot containing one item to revise the introduction, scope, and title of ASTM F3117, removing the word "inclined." The ballot item received many negative votes.		
	On January 27, 2021 staff participated in an ASTM subcommittee meeting where the previous ballot results were reviewed. The subcommittee found that many of the negative votes were persuasive, and the item was removed from ballot and sent back to the task group for additional work.		
Next Action	Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2021. Staff will also submit a final rule package to the Commission in 2021, and staff will notify the subcommittee of the package's availability.		

# **Infant Swings**

Staff Contact	Torres, Carlos	
Voluntary Standard(s)	ASTM F2088-20	Standard Consumer Safety Specification for Infant and Cradle Swings
Relevant Rulemaking	16 CFR part 1223, Sa	fety Standard for Infant Swings
Standard(s) Update	The voluntary and mathe reporting period.	andatory standards listed above were not updated during

#### **Purpose**

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

#### Activities

In October, pursuant to section 104(b)(4)(B) of the CPSIA, ASTM notified the CPSC of the 2020 revision to ASTM F2088. In response to the notification, staff prepared a briefing memo to update 16 CFR part 1223, in accordance with Pub. L. No. 112-28. On March 5, 2021, staff sent a letter to inform ASTM that the Commission had accepted the revised voluntary standard and has published a direct final rule in the *Federal Register*, to update the Safety Standard for Infant Swings, 16 CFR part 1223, to incorporate by reference ASTM F2088-20 (86 Fed. Reg. 4961 (Jan. 19, 2021)).

Staff also participated in the ASTM subcommittee meeting held on November 10, 2020. Staff provided a brief overview about the update to the mandatory rule for infant swings (the Public Law No. 112-28 update). In addition, the following task groups provided reports:

- Strangulation Staff reviewed the letter sent to ASTM about a strangulation issue. The Task Group was re-formed and staff will participate.
- Proposed age-grading change for cradle swings A member proposed a change to the age grading to stop use using when child begins to roll over. A task group will consider this issue, and staff will participate.
- Scope clarification A task group was formed, and staff will participate.
- Stability test A subcommittee member suggested a clarification to the test. A task group was formed, and staff is on the task group.

On March 12, 2021, ASTM issued an F15 ballot containing three revision items for the swing standard: (1) stability testing, (2) ad hoc battery language, and (3) age/developmental information. The ballot results were not known at the end of the reporting period.

#### **Next Action**

The effective date for the direct final rule, 16 CFR part 1223, is April 3, 2021, after the reporting period. Staff will review incident data and report the results to ASTM and will also participate in the next ASTM subcommittee meeting, scheduled for May 2021.

#### **Infant Walkers**

Staff Contact Mordecai, Benjamin

**ASTM F977-18** 

Voluntary Standard(s) ASTM Standard Consumer Safety Performance

Specification for Infant Walkers

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

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

**Purpose** 

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

Activities

On February 26, 2021, staff participated in a task group meeting to discuss potential new ballot items for the standard. Before the meeting, staff had communicated with the subcommittee chair regarding some of the potential new revisions. Five major sections from the standard were discussed for balloting:

- Occupant Leaning Outward Over Edge of Walker Test;
- Walker and Dummy Positioning for Step Tests;
- Forward Tip Resistance;
- A new section in the annex detailing the stair test procedure; and
- An update on the specified weight for the Mark II CAMI dummy used for testing.

The task group reviewed the draft ballot prepared by the subcommittee chair and discussed the provisions. Staff raised questions on the origins of the stability index as it is currently defined; it was explained it was developed many years ago, based on test data that identifies potentially hazardous walkers.

On March 12, 2021, ASTM issued an F15 ballot with five items relating to the infant walker standard. These ballot items pertain to the five sections discussed at the last task group meeting. The ballot results were not known as of the end of the reporting period.

Next Action

Staff will review the ballot items and participate in the next ASTM subcommittee meeting scheduled for May 2021.

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

**Staff Contact** Lee, Simon

Voluntary Standard(s) UL 5500, 1st Edition Remote Software Updates

UL 2900-1, 1<sup>st</sup> Software Cybersecurity for Network-Connectable

Edition Devices

ASTM F3463-20 Standard Guide for Ensuring the Safety of

**Connected Consumer Products** 

Relevant Rulemaking N/A

Standard(s)
Update

In October 2020, ASTM published ASTM F3463-20, the new Standard

Guide for Ensuring the Safety of Connected Consumer Products.

**Purpose** 

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

with connected consumer products.

Activities

Staff participated in two subcommittee meetings on January 22, 2021, and on March 5, 2021. The subcommittee reviewed previous comments and discussed potential future revisions to F3463. Staff proposed that F3463 should reference ANSI/CTA-2088, *Baseline Cybersecurity Standard for Devices and Device Systems;* and the subcommittee agreed to list the ANSI/CTA-2088 in the appendix. The subcommittee, with staff input, also agreed to: change the definition of a "consumer product" to align with the Consumer Product Safety Act (CPSA); clarify that the voluntary standard is a guide, thus conformity assessment is not applicable; and include other or updated cybersecurity references in the document's appendix.

On February 2, 2021, staff participated in a meeting with AHAM, reviewing a variety of topics of interest to AHAM and its members. During the meeting, AHAM indicated that UL 5500 will gradually get integrated into specific, end-product voluntary standards, but UL 2900 will not be referenced in individual, end-product voluntary standards.

Next Action

Staff will continue to work with the ASTM F15.75 subcommittee to monitor ASTM F3463-20 and update the standard, as needed. Staff will participate in the next subcommittee meeting, scheduled for April 9, 2021.

# **Liquid Laundry Packets**

**Staff Contact** Hurley, Jill

**Voluntary** ASTM F3159-15 Standard Safety Specification for Liquid Laundry

Standard(s) **Packets** 

Relevant N/A

Rulemaking

Standard(s) The voluntary standard listed above was not updated during the reporting

**Update** period.

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

packets.

Activities Staff attended a scope task group meeting on October 5, 2020, with the goal

of determining whether the scope of the ASTM voluntary standard should be expanded to include other populations, mainly seniors. The American Cleaning Institute reviewed data for populations 50 years or older. Staff was

asked to provide comparable NEISS data for the next task group meeting.

On October 6, 2020, the subcommittee members met to review laundry packet exposures for the year 2019, involving children under the age of 6 years. Data were presented by the Rocky Mountain Poison and Drug Center on behalf of the American Cleaning Institute, and by Epidemiology staff from CPSC. Incidents were compared to the baseline year of 2012, and to post-implementation periods of 2017 through 2019. Next, the Scope Task Chair summarized the task group's last meeting, and the incident data regarding unintentional liquid laundry packet exposures in populations 50 years and older were reviewed. Review of CPSC data for this adult population is pending submission. The Subcommittee task chair requested all task groups meet to discuss the data presented at this meeting to determine if proposals should be put forward to ballot revisions to the ASTM F3159 standard.

On December 3, 2020, the scope task group met again and the NEISS data results for senior exposures were reviewed.

On January 5, 2021, staff sent a letter and attached report to ASTM, the fifth in a series of reports, regarding ER visits associated with liquid laundry packets in the post-implementation phase of the standard.

On January 19, 2021, and March 8, 2021, staff participated in the Additional Measures task group meetings to determine the "how and why" child exposures are continuing to happen.

**Next Action** 

Staff will participate in the next scope task group meeting and at the next subcommittee meeting, both scheduled for April 21, 2021.

## **LP Gas Appliances**

**Staff Contact** Kim, Yeon Souk

Voluntary Standard(s) ANSI Z21.97-2017/ Outdoor Decorative Gas Appliances

CSA 2.41-2017

ANSI Z21.58b-2018 Outdoor Cooking Gas Appliances

/CSA 1.6-2018

NFPA 58, 2020 Liquefied Petroleum Gas Code

Edition

Relevant Rulemaking

N/A

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

**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.

Activities

On February 25, 2021, staff participated in a task force meeting to discuss adding a requirement to ANSI Z21.97 to prevent debris from clogging the venturi in outdoor gas appliances. Staff supported adding a requirement to use a screen. However, other task force members suggested the screen could lead to inconsistent fuel and air flows adding that this is inconsistent with other international standards. The task force agreed to propose adding labeling and consumer instructions to check the venturi for debris. The task force prepared a draft proposal incorporating staff comments. The task force chair will submit the draft proposal and the rationale to the TSC.

Next Action

Staff will participate in the next TSC meeting scheduled for October 2021, and staff will support venturi requirements. Staff will continue to monitor NFPA 58.

#### **Magnet Sets**

Staff Contact Harsanyi, Steve

Voluntary Standard(s)

ASTM F3458-21 Standard Specification for Marking, Packaging and

Labeling Adult Magnet Sets Containing Small, Loose, Powerful Magnets (with a Flux Index  $\geq 50$   $kG^2$  mm<sup>2</sup>)

kG² mi

Relevant Rulemaking Petition CP 17-1 Requesting Rulemaking for Magnet Sets (withdrawn on April 22, 2020). Note: Despite the withdrawal, in response to petition CP 17-1, staff submitted an informational briefing package on magnet sets to the Commission on June 3, 2020, and staff will submit an NPR briefing package to the Commission before the end of FY 2021.

Standard(s) Update In March 2021, ASTM published ASTM F3458-21, the new *Standard Specification for Marking, Packaging and Labeling Adult Magnet Sets Containing Small, Loose, Powerful Magnets (with a Flux Index*  $\geq$  50 kG<sup>2</sup>  $mm^2$ )

**Purpose** 

To work with ASTM to revise the voluntary standard to adequately address the hazard associated with ingestion of magnets from magnet sets.

Activities

Staff had no voluntary standards activity associated with the product category during the reporting period.

In late FY 2020, ASTM issued an F15 ballot containing four items, all to resolve negative votes from a previous ballot on magnet sets. Staff voted on these four items. In October 2020, ASTM published the ballot results showing that all four negatives were found to be not persuasive.

The new standard, ASTM F3458-21, was approved in February 2021, and it published in March 2021.

**Next Action** 

Staff will participate in the next ASTM subcommittee meeting, scheduled for May 25, 2021. Staff is also preparing for Commission consideration, an NPR briefing package in FY 2021 to address the internal interaction hazards associated with hazardous magnets, including "adult" (*i.e.*, general use) magnet sets.

#### **Mowers**

Staff Contact	Paul, Caroleene	
Voluntary Standard(s)	ANSI/OPEI B71.1- 2017	Standard for Consumer Turf Care Equipment – Pedestrian-Controlled Mower and Ride-On Mowers – Safety Specification
	ANSI/OPEI 60335- 2-107-2020	Particular Requirements for Robotic Battery Powered Electrical Lawnmowers
Relevant Rulemaking	16 CFR part 1205, Safety Standard for Walk-Behind Power Lawn Mowers and Petition CP 19-1 on Walk-Behind Power Lawn Mowers (withdrawn May 2020)	
Standard(s) Update	In December 2020, OPEI published ANSI/OPEI 60335-2-107-2020, the latest revision to <i>Particular Requirements for Robotic Battery Powered Electrical Lawnmowers</i> . This revision includes editorial changes and a technical change to the foot probe diagram.	
Purpose	To work with OPEI to revise their voluntary standards to address hazards associated with walk-behind power lawn mowers.	
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.	
Next Action	Staff will meet with OPEI to discuss label issues in the withdrawn petition, CP 19-01. In addition, in late FY 2021, staff intends to engage OPEI to develop their voluntary standard related to back-over hazards associated with riding mowers.	

# Nanotechnology

Staff Contact	Matheson, Joanna	
Voluntary Standard(s)	ASTM E3025-16	Standard Guide for Tiered Approach to Detection and Characterization of Manufactured Silver Nanomaterials in Textiles
	ASTM E2525-08 (2013)	Standard Test Method for Evaluation of the Effect of Nanoparticulate Materials on the Formation of Mouse Granulocyte-Macrophage Colonies

ASTM E2526- 08(2013)	Standard Test Method for Evaluation of Cytotoxicity of Nanoparticulate Materials in Porcine Kidney Cells and Human Hepatocarcinoma Cells
ASTM WK48313	Potential new guide for collection and generation of environment, health, and safety information for nanomaterials and nanoenabled products
ASTM WK52417	Potential new standard to determine total silver in textiles by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) or Inductively Coupled Plasma Mass Spectrometry (ICP MS) analysis
ASTM E3238-20	Standard Test Method for Quantitative Measurement of the Chemoattractant Capacity of a Nanoparticulate Material in vitro
ASTM WK60553	Potential new voluntary standard for evaluation of nanoparticulate material internalization by phagocytic cells in vitro
ASTM WK60554	Potential new voluntary standard for detection of nitric oxide production
ISO/TS 13830:2013	Nanotechnologies — Guidance on voluntary labelling for consumer products containing manufactured nano-objects
ISO/DTS 21356- 1:2021	Structural characterization of graphene Part 1: Graphene from powders and dispersions
ISO TR 22293	Potential new evaluation method for assessing the release of nanomaterials from commercial, nanomaterial containing polymer composites
ISO/TS 21975:2020	Polymeric nanocomposite films for food packaging with barrier properties - Specification of characteristics and measurement methods
N/A	

Relevant Rulemaking

Standard(s) **Update** 

In October 2020, ISO published ISO TS 21975:2020, new international standard for Polymeric nanocomposite films for food packaging with barrier properties - Specification of characteristics and measurement methods. In February 2021, ISO published ISO TS 21356:2021, the new international standard for Structural characterization of graphene Part 1: Graphene from powders and dispersions.

**Purpose** 

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

Activities

ISO Technical Committee 229 (ISO TC/229) focuses on standardization in the field of nanotechnologies, understanding and control of matter and processes at the nano scale, where the onset of size-dependent phenomena usually enables novel applications, as well as use of nanoscale materials to create improved materials, devices, and systems that exploit these new properties. Specific working groups address the development of standards and guides for terminology and nomenclature; metrology and instrumentation; test methodologies; modelling and simulations; and science-based health, safety, and environmental practices.

On October 14-15, 2020, staff participated in working group meetings of the U.S. TAG to ISO TC/229. The meetings were held to continue developing various ISO TC/229 projects.

On October 27-28, 2020, the ISO TC/229 working group 3 (Health, Safety and Environmental Aspects of Nanotechnologies) met for ballot resolution to resolve comments received regarding various nanotechnology ISO work items. Staff participated in the discussion, and the comments were resolved during the meetings.

The ISO TC/229 working group 3 (Health, Safety and Environmental Aspects of Nanotechnologies) and 5 (Products and Applications) met on November 2-13, 2020, to discuss high-priority projects and new project proposals. Staff participated in both working group discussions of projects and proposals.

On November 30, 2020, and on December 1, 2020, staff participated in the ASTM E56 subcommittee meetings for Physical and Chemical characterization (E56.02), Environmental, Health and Safety (E56.03), Nano-Enabled Consumer Products (E56.06), Workforce Education and Development (E56.07), and Nano-Enabled Medical Products (E56.08). The meeting participants discussed projects focusing on the characterization and quantification of nanomaterials and best analytical methods.

Staff also participated in the December 10, 2020, U.S. TAG to ISO TC/229 meeting, where actions taken during the ISO/TC 229 Plenary and Subgroup Virtual Meetings, held in November, were discussed. In addition, staff

summarized the recommendations provided by TC/229 working group 3 attendees on the CPSC proposed method for characterizing and quantifying nanomaterials released from wood products. Additional U.S. TAG members volunteered to participate in the proposed project.

On February 2, 2021, staff participated in another ISO U.S. TAG meeting for TC/229. Before the new project proposal presentations, it was noted that six working group items were recently published or submitted for publication. These items included the CPSC co-sponsored technical report 22293, "Evaluation of methods for assessing the release of nanomaterials from commercial, nanomaterial containing polymer composites." Additional standards published of interest were "Structural characterization of graphene Part 1: Graphene from powders and dispersions," "Assessment of protein secondary structure during an interaction with nanomaterials using ultraviolet circular dichroism" and "Polymeric nanocomposite films for food packaging with barrier properties-Specification of characteristics and measurement methods."

Next Action

Staff will continue to be active in the ASTM E56 subcommittees and will participate in the next ASTM E56 subcommittee meetings, scheduled for May 10-11, 2021, and for ISO TC 229 meetings, scheduled for May 10-21, 2021. Staff will continue to develop a strawman on the CPSC proposed method for characterizing and quantifying nanomaterials released from wood products. At the ISO TC 229 May 2021 meetings, international experts will discuss whether the project should start as a technical report or technical standard.

#### **National Electrical Code**

Miller, Einstein

Voluntary NFPA 70, 2020 National Electrical Code Standard(s) Edition

Relevant N/A Rulemaking

Standard(s)

**Update** 

Staff Contact

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

**Purpose**To work with the NFPA to revise the code, to strengthen its safety provisions addressing hazards associated with electrical fires, carbon monoxide poisoning, and shock incidents associated with consumer products, including

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appliances, pools and spas, generators, electrical equipment, and wiring products.

Activities

Staff participated in two of the 18 NFPA 70 Code-Making Panels (CMPs). Staff participated in six CMP 2 task group meetings on November 4, 2020, November 10, 2020, November 17, 2020, November 24, 2020, December 15, 2020, and December 16, 2020. The task group focused on public input regarding ground-fault circuit interrupters (GFCIs) to mitigate electrocution and shock hazards. The widespread use of GFCIs has been effective in mitigating shock and electrocution hazards, and staff supports their continued use. Staff also provided updated incident data on burn injuries involving countertop appliances.

Staff participated in the full CMP 2 committee meeting held January 11-16, 2021, to prepare the first draft of the articles it is responsible for in the next edition of NFPA 70. The initial ballots during the meeting favored expansion of GFCI and arc-fault circuit interrupters (AFCIs) to most other remaining branch circuits for new residential construction. Staff supported the use of AFCI and GFCI technologies as effective means to mitigate electrical shock and fire incidents in dwellings.

Staff participated in 11 CMP 17 task group meetings on November 5, 2020, November 10, 2020, November 12, 2020, November 17, 2020, November 19, 2020, November 24, 2020, December 1, 2020, December 3, 2020, December 8, 2020, December 10, 2020, and December 17, 2020. The task group focused on grounding, bonding, and GFCIs, to mitigate electrocution and shock hazards in swimming pools and similar installations. Staff actively supported proposals to add requirements for a GFCI receptacle for equipment rooms, vaults, or pits for spas, hot tubs, fountains, and similar installations.

Staff participated in the full CMP 17 committee meeting held from January 4-8, 2021, to prepare the first draft of the articles it is responsible for in the next edition of NFPA 70. Staff actively participated in discussions on numerous proposals, including removing some of the text in the requirements for immersion protection for handheld hair dryers, which the CMP accepted. Staff also supported proposals to add requirements for a GFCI-protected receptacle for equipment rooms, vaults, or pits for all swimming, wading, therapeutic, and decorative pools, fountains, hot tubs, spas, hydromassage bathtubs, and similar installations, which the CMP accepted.

**Next Action** 

The full first draft of the next edition of NFPA 70 will be available on July 2, 2021. Staff will continue to participate in developing the next edition of NFPA 70, including participating in the second draft meeting, which will be scheduled after public comments on the first draft close on August 19, 2021.

## Non-Full-Sized Cribs and Play Yards

Staff Contact	Nesteruk, Hope	
Voluntary Standard(s)	ASTM F406-19	Standard Consumer Safety Specification for Non- Full-Size Baby Cribs/Play Yards
	ASTM F2933-19	Standard Consumer Safety Specification for Crib Mattresses
Relevant Rulemaking	16 CFR part 1220, Safety Standard for Non-Full-Size Baby Cribs and 16 CFR part 1221, Safety Standard for Play Yards	
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM to revise the voluntary standards to strengthen safety provisions and to ensure that the voluntary standards and the corresponding federal mandatory standards maintain adequate safety levels addressing hazards associated with non-full-size cribs and play yards.	

Activities

In September 2020, ASTM issued a ballot with four items pertaining to the non-full-size crib and play yard voluntary standard. The ballot items were for revisions to the instructions, the accessories requirement, a figure in the stability requirement, and ad hoc language. All of the balloted items received negatives and/or comments. Two other ballots were issued by ASTM F15 during the reporting period, containing a total of three items for this standard. In December 2020, there were two ballot items issued: revision to the definition for an "accessory," and a change to the stability test fixture diagram. In March 2021, the ad hoc warnings language was re-balloted, after considering the negative votes and comments from the September 2020 ballot.

On November 9, 2020, staff participated in the ASTM subcommittee meeting during which the ballot results were reviewed. In addition, task groups provided reports. The stability task group discussed inconsistencies between test laboratories test devices that might lead to discrepancies in testing results. The task group proposed changes to the test fixture diagram in the standard. The subcommittee voted to send this out to ballot. The mattress fit and thickness task group, led by staff, provided an update report and advised members that the NPR for crib mattresses was still open for comments.

Staff participated in several task group meetings during the reporting period:

December 17, 2020 – Mattress Fit and Thickness Task Group. The task group met to discuss proposals for measuring the gap between the mattress and the play yard side wall.

January 6, 2021 – Play Yard Ad Hoc Task Group. The task group met to resolve the negatives from the September 2020 ballot.

January 21, 2021 – Mattress Fit and Thickness Task Group. Staff stepped down as task group chair, and the new chair reviewed the proposed test method that had been developed.

February 15, 2021 – Mattress Floor Definition Task Group. The task group discussed the product that has a mattress pad sewn into the floor, leaving no possible gaps on the side. The task group agreed that the definition of a "mattress" (or "mattress pad") should specify that it is removable from the unit. The task group chair will draft language for balloting.

**Next Action** 

Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2021.

# **Playground Equipment (Home)**

Staff Contact Lee, Kevin ASTM F1148-20 Standard Consumer Safety Performance Specification Voluntary Standard(s) for Home Playground Equipment Relevant N/A Rulemaking Standard(s) The voluntary standard listed above was not updated during the reporting **Update** period. **Purpose** To work with ASTM to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with home playground equipment. Activities Staff participated in the subcommittee meeting held on November 16, 2020. During this meeting, incident data, supplied by staff pertaining to entrapments and lateral slide ejections, were discussed. The subcommittee formed a task group to review the data in more detail. The task group met on December 9, 2020, and staff participated in the meeting. The task group agreed to categorize the home slide incident data for further review at the next meeting. On January 6, 2021, the task group met again; and after a review of the data, the task group concluded that the standard adequately addresses slide fall hazards. The task group suggested future work to strengthen the warning language to help address the strangulation deaths on

home slides.

In December 2020, ASTM issued an F15 main committee ballot containing one item for F1148 regarding slide surfacing. Three negative votes were cast on the ballot item that were subsequently found to be not persuasive. As of the close of the reporting period, the revision to the standard had not been published.

Next Action

Staff will participate in the next ASTM subcommittee meeting, scheduled for November 2021.

# **Playground Equipment (Public)**

**Staff Contact** Lee, Kevin

Voluntary AST Standard(s)

ASTM F1487-17 Standard Consumer Safety Performance Specification

for Public Playground Equipment

Relevant Rulemaking N/A

Standard(s) Update The voluntary standard listed above was not updated during the reporting

period.

**Purpose** 

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

Activities

During the reporting period, ASTM issued four F15 main committee ballots containing 16 different revision items for the standard and 13 items to resolve previous negative votes. In November and December 2020, staff cast negative votes and commented on two of the ballot items pertaining to bannister rails/gliders. Staff voted negative for various reasons, including concerns that the requirements outlined in the standard and ballot items would allow for glider designs similar to ones recalled in the past, to comply with the standard. Both negative votes were subsequently found to be non-persuasive. Other ballot items pertained to trolley rides, seesaws, horizontal rotating equipment, and other issues.

On February 16, 2021, ASTM issued an F15.29 subcommittee ballot containing an administrative ballot item dealing with harmonizing the CPSC Public Playground Handbook and the ASTM standard. The ballot asked the subcommittee to approve sending a letter to CPSC with recommendations to update the CPSC Public Playground Handbook. That ballot item passed. As of the end of the closing period, many of the ballot items were still being resolved. A revision to the standard, reflecting the approved ballot items, is expected to be published in May.

Staff participated in the subcommittee meetings held on November 17, 2020, January 28, 2021, and March 1, 2021. During the November 2020 meeting, staff provided the subcommittee with incident data pertaining to gliders. Ballot results were discussed during the subcommittee meetings on January 28 and March 1, 2021.

Staff also participated in various task group meetings during the reporting period, including an ASTM F14.10 fencing meeting on December 17, 2020, fully enclosed play structures on February 10 and 25, 2021, and the handbook harmonization task group meeting on November 10, 2020. The purpose of the November meeting was to continue to review the handbook for changes that could improve harmonization of the Handbook with ASTM F1487.

**Next Action** 

Staff will participate in next subcommittee meeting, which has been scheduled for November 2021.

## **Playground Surfacing**

Staff Contact	Lee, Kevin	
Voluntary Standard(s)	ASTM F1292-18e <sup>1</sup>	Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment
	ASTM F1951-14	Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment
	ASTM F3012-14	Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface Under and Around Playground Equipment
	ASTM F2223-19a	Standard Guide for ASTM Standards on Playground Surfacing
	ASTM F3313-20	Standard Test Method for Determining Impact Attenuation of Playground Surfaces Within the Use Zone of Playground Equipment as Tested in the Field
	ASTM F3351-19	Standard Test Method for Playground Surface Impact Testing in Laboratory at Specified Test Heights

Relevant N/A Rulemaking

Standard(s) Update

Activities

In November 2020, ASTM published ASTM F3313-20, the latest revision of the *Standard Test Method for Determining Attenuation of Playground Surfaces*. The revision includes minor changes to the reporting requirement

section of the standard.

**Purpose** To work with ASTM to revise the voluntary standards to address the hazard

patterns associated with playground surfacing.

Staff participated at the ASTM F08.63 subcommittee meeting on playground surfacing held on November 19, 2019, during which staff discussed sharp surface and fall incident data supplied by staff to ASTM earlier that month.

During the reporting period, ASTM issued F08 main committee ballots containing four items for the playground surfacing standards. In October 2020, ASTM balloted F3012-14 for reapproval (without changes) and balloted a revision to the instrumentational check section of F3313-20. Both of these ballot items received negative votes; thus, they were not approved. In December, ASTM F08 issued two other ballot items: another revision to the instrumentation check section of F3313-20, and an update with revisions to F1951-14. Both of these ballot items also received negative votes; and thus, they were not approved.

**Next Action** Staff will participate in the next ASTM subcommittee meeting, scheduled for May 20, 2021.

# **Pools, Portable Unprotected (Child Drowning)**

Bathalon, Susan Staff Contact **Voluntary** ASTM F2666-16 Standard Specification for Aboveground Portable Standard(s) Pools for Residential Use ANSI/APSP/ICC-4a-American National Standard for Above-Ground/On-Ground Residential Pools 2013 ANSI/APSP/ICC-8 American National Standard Model Barrier Code for 2005 (R2013) Residential Swimming Pools, Spas, and Hot Tubs Relevant N/ARulemaking

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

**Purpose** 

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

**Activities** 

Between October 13, 2020, and March 22, 2021, staff participated in seven separate ASTM task group meetings to review and discuss proposed requirements for computer-based pool drowning detection systems. The task group commenced in FY 2020, and it is in the process of drafting proposed requirements for new safety technology, such as an electronic computer vision that can add notification features to alert caregivers that a drowning event is occurring.

At the last task group meeting on March 22, 2021, staff participated in group discussions on the functionality benefits and limitations of several computer vision technologies, including underwater computer vision camera technology and pressure sensors. Much of the pressure sensor information originated from pool alarm technologies, which, without adaptations, may not be suited for the computer vision draft standard. Staff and the task group chair will research the market for pressure sensor advancements in computer vision.

**Next Action** 

Staff will participate in the next ASTM task group meeting on pool drowning detection systems, which has not been scheduled.

## Portable Bed Rails (Children's)

Staff Contact	Nesteruk, Hope	
Voluntary Standard(s)	ASTM F2085-19	Standard Consumer Safety Specification for Portable Bed Rails
Relevant Rulemaking	16 CFR part 1224, Safety Standard for Portable Bed Rails	
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with portable bed rails for children.	

Activities Staff had no voluntary standards activity associated with the product

category during the reporting period.

**Next Action** Staff will conduct the annual review of incident data and will participate in

the next subcommittee or task group meeting, when scheduled.

#### **Portable Generators**

Staff Contact Buyer, Janet

*Voluntary* ANSI/PGMA G300- Safety and Performance of Portable Generators *Standard(s)* 2018 (Errata Update)

UL 2201, 2<sup>nd</sup> Edition Carbon Monoxide (CO) Emission Rate of Portable

Generators

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

Standard(s) The voluntary standards and the NPR listed above were not updated during the reporting period.

**Purpose** To work with UL and PGMA to revise the voluntary standards to strengthen

safety provisions addressing hazards associated with portable generator

carbon monoxide (CO) deaths and injuries.

Activities Staff continues to work with NIST staff to execute the simulation plan, as

proposed in NIST Technical Note 2048, and revised in staff's memorandum dated August 12, 2020. This will allow staff to evaluate the effectiveness of the CO hazard mitigation requirements for portable generators in two

voluntary standards, PGMA G300 and UL 2201.

**Next Action** Staff will continue to participate in PGMA G300 and UL 2201 voluntary

standards meetings related to portable generators. Staff will notify the SDOs when the effectiveness analysis is completed and the report is published.

#### **Portable Hook-On Chairs**

Staff Contact Nesteruk, Hope

**Voluntary** ASTM F1235-18 Standard Consumer Safety Specification for Portable Standard(s) Hook-On Chairs Relevant 16 CFR part 1233, Safety Standard for Hook-On Chairs Rulemaking Standard(s) The voluntary and mandatory standards listed above were not updated during **Update** the reporting period. **Purpose** To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with hook-on chairs. Activities To monitor the adequacy of the mandatory standard and its referenced voluntary standard, staff conducted the annual review of incident data associated with hook-on chairs in November 2020, and shared the results with ASTM. Staff did not identify any new incidents or hazard patterns for this product since the last review.

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

#### **Pressure Cookers**

**Next Action** 

Staff Contact	Snyder, Duncan Scott	
Voluntary Standard(s)	UL 136, 8 <sup>th</sup> Edition Pressure Cookers	
Relevant Rulemaking	N/A	
Standard(s) Update	The voluntary standard listed above was not updated during the reporting period.	
Purpose	To work with UL to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with pressure cookers.	
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.	
Next Action	Staff will provide UL with incident data relating to pressure cooker locking mechanisms and hazards related to premature lid disengagement. Staff will work with UL STP 136 to determine whether the current voluntary standard adequately addresses all potential hazards.	

## **Recreational Off-Highway Vehicles (ROVs)**

Staff Contact Paul, Caroleene

**Voluntary** ANSI/ROHVA 1-Recreational Off-Highway Vehicles

Standard(s) 2016

> ANSI/OPEI B71.9-American National Standard for Multipurpose Off-

Highway Utility Vehicles 2016

Relevant NPR Recreational Off-Road Vehicles (79 FR 68964) Rulemaking

Standard(s) **Update** 

The voluntary and mandatory standards listed above were not updated during

the reporting period.

**Purpose** To work with ROHVA and OPEI to develop requirements to address fire

hazards and debris penetration hazards in off-highway vehicles.

Activities Staff had no voluntary standards activity associated with the product

category during the reporting period.

On March 26, 2021, ROHVA informed CPSC that ANSI/ROHVA 1-2016 is

open for revision.

In accordance with the FY 2021 Operating Plan, staff will submit an ANPR Next Action

> briefing package on fire and debris penetration to the Commission on April 28, 2021. Staff will notify the SDOs and encourage comments, and staff will review comments submitted in response to the ANPR. Comments to the ANPR will also be reviewed for potential recommendations to revise the

voluntary standards.

# Safety Locks and Other Household Child-Inaccessibility **Devices**

**Staff Contact** Lee, Kevin

**Voluntary ASTM F3492** Standard Consumer Safety Specification for Child Standard(s) -21

Safety Locks and Latches for Use with Cabinet

**Doors and Drawers** 

Relevant	N/A
Rulemaking	

Standard(s) **Update** 

In February 2021, ASTM published F3492-21, the new *Standard Consumer* Safety Specification for Child Safety Locks and Latches for Use with Cabinet

Doors and Drawers

**Purpose** 

To work with ASTM to address hazards associated with safety locks and child-inaccessibility devices.

Activities

In November 2020, CSPC staff provided the ASTM subcommittee with an incident data summary spreadsheet pertaining to safety locks and latches.

In December 2020, ASTM issued a ballot containing the draft standard. Staff participated in a subcommittee meeting on February 2, 2021, during which the ballot results from the December 2020 ballot item were reviewed. The standard was approved, and it includes requirements for small parts, sharp edges, paint and surface coatings, openings from holes and slots, loose magnets, effective strength, and warning labeling. During the subcommittee meeting, staff recommended adding a test procedure to measure the gap from an opening in a drawer/cabinet while the latch/lock is installed. The group formed a new task group to develop this requirement, and staff will participate in the task group.

Next Action

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

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

Staff Contact	Mella, Lawrence	
Voluntary Standard(s)	ASTM F2641-15	Recreational Powered Scooters and Pocket Bikes
	ASTM F2642-08 (2015)	Standard Consumer Safety Specification for Safety Instructions and Labeling for Recreational Powered Scooters and Pocket Bikes
	ASTM WK57360	Potential new voluntary standard for self-balancing scooters and hoverboards
	ASTM WK70724	Potential new voluntary standard for commercial electric-powered scooters for adults

Relevant Rulemaking N/A

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

**Purpose** 

To work with ASTM to develop a new voluntary standard or revise the existing standard to strengthen the safety provisions addressing hazards associated with self-balancing scooters and electric-powered scooters for adults.

Activities

During the reporting period, staff participated in three main task group meetings for the potential new standard on commercial eScooters. These meetings took place on October 21 and November 19, 2020, and on January 11, 2021. The task group and subcommittee members discussed the two potential standards being developed in the F15.58 subcommittee and also created sub-task groups to work on specific requirements for the commercial eScooter standard. Staff joined each of the sub-task groups.

Following the creation of the sub-task groups, staff participated in several of the task group meetings on the following dates:

- Electrical: November 4, 2020, November 18, 2020 and December 2, 2020
- Latching: November 4, 2020, November 12, 2020 and December 3, 2020
- Hazardous Substances: November 23, 2020 and December 7, 2020
- Brakes: December 2, 2020, January 29, 2021, February 12, 2021, March 5, 2021 and March 18, 2021
- Turn Signals: March 1, 2021
- Curb Impacts: February 8, 2021

Next Action

Staff will participate in the next ASTM task group meetings, with dates scheduled during April, for brakes, electrical, curb impact and turn signals, and other subcommittee or task group meetings, when scheduled.

#### Sling Carriers (Infant and Toddlers)

**Staff Contact** Nesteruk, Hope

Voluntary Standard(s) ASTM F2907-19

Consumer Safety Specification for Sling Carriers

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

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

**Purpose** 

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

Activities

Staff participated in the subcommittee meeting on November 9, 2020, during which staff discussed the annual incident data review and the previously provided incident data spreadsheet. In addition, a test lab representative reported seeing lots of slippage in ring slings during testing. A task group was formed to look into the ring slippage issue and to work on clarifying the test method. Staff is participating in the task group.

On January 11, 2021, staff participated in the ring-slippage task group meeting. The group discussed how some failures seem to be inconsistent (e.g., 2 of 3 identical samples pass, one fails). Staff raised the issue of the stringency of the standard and suggested making sure the group focuses on things that will not reduce the safety and ensure that test results are consistent. Group members raised issues with the frequency (2Hz) and the travel distance (4.75 inches) test parameters of the occupant retention test. Staff presented information from a staff-written letter to the previous chair of this subcommittee in 2013, which addressed these points the last time they were raised. At that time, staff referred to scientific literature that supported 2Hz as being consistent with human walking speeds. Staff read this portion of the letter to the task group. Staff forwarded this letter to the current subcommittee chair.

On March 3, 2021, staff participated in the Ad Hoc language task group meeting. During the meeting, the chair circulated a draft of the ballot, and the task group reviewed and discussed the draft. Due to the lengthy discussion, the task group did not get through all of the topics up for discussion. Another meeting will be scheduled before the item goes out for ballot.

Next Action

Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2021.

#### **Smoke Alarms**

**Staff Contact** Lee, Arthur

Voluntary Standard(s) UL 217, 9th Edition Standard for Single and Multiple Station Smoke

Alarms

NFPA 72, 2019 National Fire Alarm and Signaling Code

Edition

Relevant Rulemaking N/A

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

**Purpose** 

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

Activities

Staff listened in on the final portion of a UL 217 STP meeting on March 2, 2021. During this portion of the meeting, a task group chair reported that the task group's experience, and probably the STP as a whole, do not have the expertise to calculate the reliability of the components in a smoke alarm. The chair suggested consulting with reliability experts to help calculate smoke alarm reliability.

Staff continues to work with the contractor on the Smoke and CO Alarm Survey. Biweekly meetings are held with the contractor, staff, and the main sponsors of the survey (NFPA and NIST), to discuss various strategies to restart the survey in 2021, and track the progress of the survey.

In March 2021, staff asked UL about the change in the effective date--from June 2021 to June 2022--for the polyurethane foam smoldering and flaming tests and nuisance-resistance test. UL informed staff that, due to the pandemic, manufacturers have had issues getting the needed components to produce their smoke alarms. Currently, there are only a few model smoke alarms listed to the additional tests, but none are available for sale.

**Next Action** 

Staff will continue to work with the contractor to complete the Smoke and CO Alarms survey and to provide the survey to interested stakeholders, when available. Staff will work with NPFA, UL, and other stakeholders in possibly developing proposals regarding the audible frequency of smoke alarms. Staff will participate in the next UL 217 STP meeting scheduled for fall 2021.

### **Soft Infant and Toddler Carriers**

**Staff Contact** Nesteruk, Hope

Rulemaking

Activities

Voluntary ASTM F2236-16a Standard Consumer Safety Specification for Soft

Standard(s) Infant and Toddler Carriers

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

Standard(s) The voluntary and mandatory standards listed above were not updated during

Update the reporting period.

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

On November 2, 2020, staff participated in a task group meeting regarding fasteners on soft infant and toddler carriers. The task group discussed potential changes to the static and dynamic tests in ASTM F2236.

On November 6, 2020, staff participated in a task group meeting to address hazards with leg openings in the carriers. The group discussed the use of the largest truncated cone to perform certain leg opening tests for older children. The task group also discussed messages in the warning label, including: "Baby must face towards you until he or she can hold head upright."

Currently, this message is required on the product, but it is not allowed on the warning label. Staff expressed a general concern that the discussion may lead to removing warning messages, which could be viewed as a reduction in safety during the rule update process. The final topic of discussion was the possibility of refining the warning message for carriers intended for children older than 4 months. After discussions, staff suggested that because the focus of this group is on leg openings, the warning label discussions should be moved to a task group for warnings, because there may be others who wish to be involved. The chair agreed.

Staff also participated in the subcommittee meeting on November 9, 2020, regarding the standard for soft infant and toddler carriers, ASTM F2236. There are a number of ballot items that have passed, but they are being held administratively. The chair is planning to publish a revised standard by mid-2021, and will notify CPSC afterward. During the meeting, the following task groups provided reports: leg openings, warnings, and dynamic testing. During the warnings task group report, a new labeling task group was

formed, to consider changes to one of the warnings on the product. Staff is participating on the task group.

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

scheduled.

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

Staff Contact	Dayal, Vineed	
Voluntary Standard(s)	ASTM F1446-20	Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear
	ASTM F1447-18	Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating
	ASTM F2220-15	Standard Specification for Headforms
Relevant Rulemaking	N/A	
Standard(s) Update	In November 2020, ASTM published ASTM F1446-20, the latest revision to the Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear. This revision contains several editorial changes and a minor update to the definition of an "Impact Test Apparatus."	
Purpose	To work with ASTM to develop and revise helmet and headgear voluntary standards, and to work with ASTM to develop a new voluntary standard for headgear sensors.	
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.	
	<u> </u>	off received authorization to serve as the task group 108.53 sensors task group.
Next Action	voluntary standard for sensors task group. St	work with the ASTM members to develop the draft r headgear sensors. In addition, staff will chair the raff intends to participate in the next subcommittee neduled for November 2021.

# **Spray Polyurethane Foam (SPF) Insulation**

Staff Contact	Bevington, Charles	
Voluntary Standard(s)	ASTM D8142-17e <sup>1</sup>	Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers
	ASTM WK58354	Potential new voluntary standard for measuring chemical emissions from SPF insulation in a large-scale ventilated enclosure
	ASTM WK58356	Potential new voluntary standard for modeling indoor concentrations of chemical substances from indoor materials
Relevant Rulemaking	N/A	
Standard(s) Update	The voluntary standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM to develop new voluntary standards to address hazards associated with chemical emissions from spray polyurethane foam insulation.	
Activities	Staff participated in an ASTM D22 .05 Indoor Air Quality task group meeting on March 25, 2021. During the meeting, WK 58354 and WK 58356 work items were discussed. Staff encouraged the subcommittee to lengthen the sampling timeframe to 3 days and to add end-of-experiment sampling from chamber ceiling and floors in WK 58354. The subcommittee expects WK 58354 to go to ballot later this calendar year, with WK 58356 expected to ballot during the next calendar year.	
Next Action	task group in preparin	provide technical support to the subcommittee and the 12 both ASTM WK58354 and ASTM WK58356 for cipate in the next ASTM D22.05 subcommittee or April 20, 2021.

## **Stationary Activity Centers**

Staff Contact Lee, Kevin

ASTM F2012-18e<sup>1</sup> **Voluntary** Standard Consumer Safety Specification for

Standard(s) Stationary Activity Centers

Relevant 16 CFR part 1238, Standard Consumer Safety Specification for Stationary

Rulemaking Activity Centers

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

To work with ASTM to ensure that the voluntary standard and the **Purpose** 

corresponding federal mandatory standard maintain adequate safety levels

addressing hazards associated with stationary activity centers.

Activities On October 14, 2020, staff sent a letter to the subcommittee chair, asking

> him to set up a meeting to address the strap integrity issues that remain unresolved. On February 8, 2021, ASTM held a strap integrity task group meeting in response to the October letter. The task group last met on August 31, 2020, under the previous subcommittee chair, and the group drafted a set of performance and test requirements to address the failure of suspension straps. The draft proposal requires either a separate redundant suspension strap, or life cycle testing. The task group reviewed the proposed

performance and test requirements that were previously drafted.

On March 12, 2021 ASTM issued an F15 ballot with an item containing performance and test requirements to address suspension strap failures in stationary activity centers. Ballot results were not known at the end of the

reporting period.

Next Action Staff will participate at the next subcommittee meeting, scheduled for May

2021.

## Swimming Pools/Spas, Drain Entrapment

Staff Contact Eilbert, Mark

**Voluntary** ANSI/APSP/ICC 16- American National Standard for Suction Fittings for Standard(s) 2017

Use in Swimming Pools, Wading Pools, Spas, and

Hot Tubs

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

Standard(s) Update The Commission postponed the effective date for the updated mandatory drain cover standard in section 1404(b) of the *Virginia Graeme Baker Pool and Spa Act* (VGBA) from November 24, 2020, to May 24, 2021.

**Purpose** 

To work with PHTA (formerly APSP) to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing entrapment hazards in swimming pools, wading pools, spas, and hot tubs available to the general public, as well as products like pool drain covers.

Activities

Staff had no voluntary standards activity associated with the product category during the reporting period.

PHTA notified staff on February 21, 2021, of their intent to develop a provisional amendment to ANSI/APSP/ICC 16-2017. The amendment will add requirements for storable pools.

Next Action

Staff continues to work with the committee to monitor the effectiveness of the voluntary standard and make any revisions necessary.

## Swimming Pools/Spas Safety, Vacuum Relief System

Staff Contact Eilbert, Mark

Voluntary Standard(s) 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

ANSI/APSP/ICC-7- Suction Entrapment Avoidance

2013

ASTM F2387- Manufactured Safety Vacuum Release Systems (SVRS) for Swimming Pools, Spas and Hot Tubs

Relevant Rulemaking N/A

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

### **Purpose**

To work with PHTA (formally APSP) and ASTM to develop the voluntary standards to strengthen safety provisions and to ensure that the voluntary standard maintains adequate safety levels addressing hazards associated with safety vacuum release systems for swimming pools, spas, wading pools, and hot tubs.

#### Activities

In late FY 2020, ASTM issued a ballot with an item associated with ASTM F2387. In October 2020, staff reviewed the ballot item and submitted an editorial comment regarding a change to a test criteria requirement. The ballot received a negative vote, which remained unresolved at the end of the reporting period.

In December 2020, ASTM balloted another revision to their standard F2387-2004(12) that updates the scope of the standard. The ballot item received a negative vote that was found to be not persuasive in March 2021. The standard is expected to be updated in late spring 2021.

#### Next Action

Staff will continue to attend PHTA and ASTM meetings, when scheduled, and will participate in the future development of the voluntary standards.

### **Table Saws**

Staff Contact	Paul, Caroleene	
Voluntary Standard(s)	UL 62841-3-1, 1 <sup>st</sup> Edition	Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 2-1: Particular Requirements for Transportable Table Saws
Relevant Rulemaking	NPR Safety Standard Addressing Blade-Contact Injuries on Table Saws (82 FR 22190)	
Standard(s) Update	The voluntary standard and NPR listed above were not updated during the reporting period.	
Purpose	To work with UL on revising the voluntary standard to strengthen its safety provisions addressing hazards associated with blade-contact injuries from table saws.	
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.	
Next Action	Staff will update UL on incident data and CPSC rulemaking actions.	

## **Tents**

Staff Contact	Tenney, Allyson	
Voluntary Standard(s)	ASTM F3431-21	Standard Specification for Determining Flammability of Materials for Recreational Camping Tents and Warning Labels for Associated Hazards
Relevant Rulemaking	N/A	
Standard(s) Update	In February 2021, ASTM published ASTM F3431-21, the latest revision to the Standard Specification for Determining Flammability of Materials for Recreational Camping Tents and Warning Labels for Associated Hazards. This revision includes scope exemptions for products that meet the requirements of NFPA and ICC codes.	
Purpose	To work with ASTM on developing a voluntary standard to address the hazards associated with tent flammability.	
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.	
Next Action	Staff will participate in August 2021.	n the subcommittee meeting, tentatively scheduled for

# **Toddler Beds**

Staff Contact	Kish, Celestine	
Voluntary Standard(s)	ASTM F1821-19e <sup>1</sup>	Standard Consumer Safety Specification for Toddler Beds
Relevant Rulemaking	16 CFR part 1217, Safety Standard for Toddler Beds	
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM to ensure that the voluntary standard and the	

corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with toddler beds.

Activities Staff had no voluntary standards activity associated with the product

category during the reporting period.

Next Action Staff will conduct the annual review of incident data on toddler beds and will

participate in the next subcommittee or task group meeting, when scheduled.

### **Torch Fuel and Lamp Oil**

Staff Contact White, Sharon

Voluntary ASTM WK60454 Standard(s) Potential new voluntary standard for torch fuel and

lamp oil packaging

Relevant Rulemaking

N/A

Standard(s) Update The potential new voluntary standard listed above was not completed during

the reporting period.

**Purpose** 

To work with ASTM to develop voluntary standards addressing the hazards associated with the color and design of torch fuel and lamp oil packaging, the color and odor of torch fuel and lamp oil, and the use and design of devices

principally intended to house torch fuel and lamp oil.

Activities

ASTM appointed a new F15.72 subcommittee chair in December 2020. Staff participated in two ASTM F15.72 subcommittee meetings on December 17, 2020, and on February 17, 2021. During the December meeting, the subcommittee discussed three negative votes on a recent torch and lamp fuel ballot item for WK60454 (ASTM F15-06, item 21). Staff participated in the discussion of the negatives and agreed that changes were needed to the draft WK60454 standard. The subcommittee found the negatives persuasive, and the subcommittee chair will schedule a task group meeting for April 15, 2021, to discuss changes to the draft standard. During the February meeting, the subcommittee discussed the scope of the subcommittee, the current standards, and the draft standard. The subcommittee was initially formed to develop requirements related to the ingestion of torch fuel and lamp oil. However, over time, portable fireplaces and flame mitigation devices were added to the subcommittee activities. The subcommittee members discussed broadening the scope of the subcommittee, but not changing the scope of the

current standards and draft standard. On March 11, 2021, ASTM balloted a name change for the subcommittee to "Prefilled Flammable and Combustible Liquid Containers."

Staff participated in a task group meeting on January 21, 2021, to discuss the persuasive negatives and comments from the ballot. With staff support, the task group agreed to revise the scope of the draft standard to indicate that it is not intended to address flammable or extremely flammable liquids. Staff also engaged with the task group via email after this meeting, to address the negatives and comments from the ballot.

On March 8, 2021, staff sent a letter to the subcommittee chair, requesting that the ASTM F15.72 subcommittee form a new task to address the hazards associated with the color and odor of torch and lamp fuel.

#### **Next Action**

Staff will continue to work with ASTM and the task group to publish a new voluntary standard on torch fuel and lamp oil packaging. Staff will also participate in all future meetings, including the task group meeting scheduled for April 15, 2021.

### **Toys**

Staff Contact	Mordecai, Benjamin	
Voluntary Standard(s)	ASTM F963-17	Standard Consumer Safety Specification for Toy Safety
Relevant Rulemaking	16 CFR part 1250, Safety Standard for Toys	
Standard(s) Update	The voluntary and mandatory standards listed above were not updated during the reporting period.	
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.	
Activities	On October 12, 2020, staff participated in an ISO TAG 191 meeting, during which members discussed changes intended to align ASTM F963, EN-71 and ISO 8124-1. Mechanical requirements, phthalates, and age determinations were the primary topics of the meeting.	

On October 23, 2020 ASTM, issued an F15 ballot containing nine items pertaining to the toy standard. The topics balloted for revision were as follows: reference documents; tracking labels; definitions; requirements for water-filled toys; XRF alternatives; toy substrates; phthalates; acoustics; and paper and paperboard.

Staff participated in an ASTM subcommittee meeting on November 30, 2020, during which the ballot results were discussed. Several of the items received negative votes, and therefore, ballot items for acoustics and toy substrates are being revised. Other items had administrative negatives, in effect, tabling them to allow for additional comments to be included. Staff agreed to respond to ASTM on language for phthalate requirements and staff's stance on "paper" and "paperboard" definitions. On February 5, 2021, staff sent a letter to ASTM suggesting non-substantive changes for phthalates and toy substrate materials. Additionally, staff cited no issues pertaining to "paper" and "paperboard."

**Next Action** 

Staff will participate in upcoming ASTM task group meetings or subcommittee meetings, when scheduled.

## **Upholstered Furniture**

Staff Contact	Lock, Andrew	
Voluntary Standard(s)	ASTM E1353-16	Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture
	NFPA 260, 2019 Edition	Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture
Relevant Rulemaking	DFR, Standard for the Flammability of Furniture (86 FR 18440) and Proposed FR, Standard for the Flammability of Furniture (86 FR 18491)	
Standard(s) Update	The voluntary standards listed above were not updated during the reporting period.	
Purpose	To work with ASTM, NFPA, and other stakeholders to revise voluntary standards to strengthen safety provisions addressing hazards associated with fires involving upholstered furniture.	
Activities	Staff participated in two meetings on upholstered furniture during the	

reporting period. Staff participated in an ASTM E05.15 meeting on December 7, 2020, during which the subcommittee discussed minor edits to various standards. Staff commented on the status of work items that had been retired or addressed by other standards developers, such as NFPA.

Staff also participated in NFPA Fire Tests Committee meetings held March 1-8, 2021. The NFPA 260 task group reported on potential changes to the NFPA 260 standard. The committee also discussed the status of NFPA 260 in the context of the upcoming federal adoption of California Technical Bulletin 117-2013 (TB 117-2013). Staff provided the publicly available information on Commission activity regarding TB 117.

In December 2020, Congress enacted the *COVID-19 Regulatory Relief and Work From Home Safety Act*, which among other actions, requires the CPSC to adopt TB 117-2013 as a mandatory standard under the Flammable Fabrics Act. On March 30, 2021 the Commission voted to issue a direct final rule and a proposed final rule to codify TB 117-2013 in the Code of Federal Regulations.

**Next Action** 

Staff will continue to participate in ASTM E05.15 subcommittee meetings and NFPA 260 meetings. The 3-year revision cycle for NFPA 260 will begin in FY 2021. Staff will continue to work with ASTM, NFPA, and other stakeholders to address hazards associated with fires involving upholstered furniture.

## **Washing Machines**

Staff Contact	Kim, Yeon Souk	
Voluntary Standard(s)	UL 2157, 4 <sup>th</sup> Edition Electric Clothes Washing Machines and Extractors	
Relevant Rulemaking	N/A	
Standard(s) Update	The voluntary standard listed above was not updated during the reporting period.	
Purpose	To work with UL to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with an unbalanced load condition of top-loading washing machines.	

Activities

Staff had no voluntary standards activity associated with the product category during the reporting period.

AHAM contracted a third-party testing lab to evaluate two proposed test methods to evaluate the unbalanced load conditions of top-loading washers. AHAM expects to share test results with staff later in the fiscal year.

**Next Action** 

Staff will continue to work with UL and AHAM to improve the safety-related requirements in UL 2157. Staff will provide AHAM with comments on testing results. Staff expects AHAM to host a meeting later in the fiscal year, during which a proposal on UL 2157 will be discussed.

### Wearables

Staff Contact	Thomas, Treye	
Voluntary Standard(s)	UL 8400	Potential new voluntary standard for safety for virtual reality (VR), augmented reality (AR) and mixed reality (MR) technology equipment
Relevant Rulemaking	N/A	
Standard(s) Update	The potential new vol the reporting period.	untary standard listed above was not completed during
Purpose	To work with UL, ASTM, and any other SDOs to develop voluntary standards for wearable technologies to keep consumers safe.	
Activities	Staff participated in six UL 8400 Task Group meetings on October 1, 2020, October 7, 2020, October 15, 2020, October 22, 2020, October 27, 2020, and December 1, 2020. These task group meetings focused on developing recommendations, requirements, or both, pertaining to (1) enhancing the spatial perception afforded by Virtual Reality, Augmented Reality, and Mixed Reality head-mounted devices (HMDs), and (2) Allergic Contact Dermatitis sections of the proposed UL 8400 standard. During these task group meetings, staff actively participated in various discussions, including changing section titles, the scope of the testing, and including requirements focused on the release of chemicals from VR components.	

Staff also participated in three UL 8400 STP meetings on October 27, 2020, January 6, 2021, and January 12, 2021. Each STP meeting included task group reports. The meeting on October 27, 2020, included debate on the duration of VR games and discussions on the ambient temperature. The

meeting on January 6, 2021, included a discussion on additional requirements concerning adverse health outcomes, such as motion sickness and eyestrain, which could be included in the draft standard. The meeting on January 12, 2021, included discussions on judder, jitter, and flicker, and other potential concerns, such as seizures.

**Next Action** 

Staff will continue to engage with a range of stakeholders to develop voluntary standards for wearable technologies to identify, address, and mitigate consumer hazards. Staff will continue to work with the UL 8400 STP and the task groups to develop a new voluntary standard for virtual reality, augmented reality, and mixed reality technology equipment.

## **Window Coverings**

Staff Contact	Balci-Sinha, Rana	
Voluntary Standard(s)	ANSI/WCMA A100.1-2018	Standard for Safety of Corded Window Covering Products
Relevant Rulemaking	ANPR published in January 2015 (80 FR 2327)	
Standard(s) Update	The voluntary standard and ANPR listed above were not updated during the reporting period.	
Purpose	To work with WCMA to revise the voluntary standard to strengthen its safety provisions addressing hazards associated with window covering cords.	
Activities	Staff had no voluntary standards activity associated with the product category during the reporting period.	
Next Action	Staff will participate in upcoming committee meetings as they are scheduled, and will review and comment on any ballots issued by WCMA.	