



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

This document has been electronically
approved and signed.

Memorandum

Date: May 31, 2019

TO: The Commission
Alberta E. Mills, Secretary

THROUGH: Mary T. Boyle, Executive Director
Patricia M. Hanz, General Counsel

FROM: Patricia L. Edwards,
Voluntary Standards Coordinator
Office of Hazard Identification and Reduction

SUBJECT: Voluntary Standards Activities Fiscal Year 2019 Mid-Year Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Voluntary Standards Activities FY 2019 Mid-Year Report (October 1, 2018– March 31, 2019). If you have any questions, please contact Patricia Edwards at: 301-987-2224, or at: pedwards@cpsc.gov.

VOLUNTARY STANDARDS TRACKING ACTIVITY REPORT



**FY 2019 MID-YEAR REPORT
(October 1, 2018–March 31, 2019)**

**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, 2018 – March 31, 2019

SUMMARY

Voluntary standards play an important role at CPSC. Under some of CPSC's statutes, if a relevant voluntary standard addresses the risk of injury a product presents, the Commission could issue a mandatory standard only if the voluntary standard either 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) included provisions regarding certain voluntary standards. Specifically, section 104 of the CPSIA requires the Commission to promulgate consumer product safety standards for durable infant or toddler products. These 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 current Voluntary Standards Tracking Activity Report (VSTAR) shows, among other things, product or product areas associated with voluntary standards work, the name of the U.S. Consumer Product Safety Commission (CPSC) staff leading each activity, the name(s) and designation(s) of the standards associated with the product, the purpose of staff's involvement, any associated mandatory standard or regulation, the activity by staff during the reporting period, and staff's next actions and recommendations associated with the voluntary standard. This report also includes a section updating the standards associated with each product covered in the report, and reflecting whether there were any revisions or other updates to the voluntary or mandatory standards that occurred during the reporting period.

The VSTAR report is issued bi-annually as: (1) a Mid-Year Report, covering the period from October 1 through March 31, and as (2) an Annual Report of the CPSC fiscal year, which covers the period from October 1 to September 30. This document is the FY 2019 Mid-Year Report.

Voluntary standards activities are handled by various standards developing organizations (SDOs) that are accredited by the American National Standards Institute (ANSI). The majority of the standards discussed in this report are developed by ASTM International (ASTM) or Underwriters Laboratories Inc. (UL). The standards covered in this report provide safety provisions addressing potential hazards associated with consumer products found in homes, schools, and recreation areas.

The FY 2019 CPSC Operating Plan, as modified midyear, outlines 74 different products of which staff was actively involved in the development of associated voluntary standards during the fiscal year. Thirty-three CPSC staff members serve as designated representatives for the standards work that covers the 74 products outlined in this report. The report describes CPSC staff's activity in providing technical support and the results of that work (when applicable), during the first half of

fiscal year 2019. For additional information on specific activities, and meetings logs, check the CPSC website.

With regard to voluntary standards activity associated with Section 104 of the CPSA, staff expects to submit a final rule briefing package on stationary activity centers (SACs) to the Commission in the second half of FY 2019.

In October 2018, a *Federal Register* notice published for the infant bath tub mandatory standard, 16 CFR part 1234. The notice, a direct final rule, revised the CPSC’s standard for infant bath tubs, to incorporate by reference, the most recent version of the voluntary standard, ASTM F2670-18. Before the end of FY2019, ASTM expects to notify the Commission of several other recently revised voluntary standards.

UPDATED STANDARDS

The 13 new or revised voluntary safety standards in which CPSC staff was actively engaged in developing, and that were approved and/or published during the period October 1, 2018 to March 31, 2019, are outlined in Table 1 below.

**Table 1: New or Revised Voluntary Standard Published
October 1, 2018–March 31, 2019**

Product	SDO	Standard Designation
Amusement Rides (Dynamic Characteristics)	ASTM	F2137-18
Amusement Rides (Quality, Manufacture and Construction)	ASTM	F1193-18a
Amusement Rides (Standard Practice for Auditing)	ASTM	F2974-19
Electric Fans	UL	UL 507 10 th Ed (2018)
Gasoline Containers (Flame Arrestors)	ASTM	F3326-19
High Chairs	ASTM	F404-18a
Infant Bath Seats	ASTM	F1967-18
Playground Surfacing	ASTM	F1292-18
Portable Fireplaces	ASTM	F3363-19
Self-Balancing Scooters and Light Electric Vehicles	UL	UL 2272 1 st Ed (2019)
Spray Polyurethane Foam Insulation	ASTM	D7859-19
Toddler Beds	ASTM	F1821-19
Upholstered Furniture	NFPA	NFPA 260

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. To date, there have been no new approvals for leadership or voting activity for FY 2019. Two renewal requests were approved during the reporting period:

- Hope Nesteruk (leadership on ASTM F15.18 for non-full-size cribs and play yards), and
- Scott Ayers (leadership and voting on ASTM new task group on flame-mitigation devices for disposable fuel containers).

ORGANIZATIONAL ABBREVIATIONS

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

AATCC	American Association of Textile Chemist and Colorists
AFSL	The American Fireworks Standards Laboratory
AHAM	Association of Home Appliance Manufacturers
AHFA	American Home Furnishing Alliance
AHRI	Air Conditioning, Heating and Refrigeration Institute
ANSI	The American National Standards Institute
	<ul style="list-style-type: none">• ANS – American National Standard (Approved by ANSI)
APA	American Pyrotechnics Association
APSP	The Association of Pool and Spa Professionals
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	Canadian Standards Association

CTIA	The Wireless Association
DOT	Department of Transportation
EIC	International Electrotechnical Commission
EN	European Nation
HPBA	The Hearth, Patio, and Barbeque Association
ICC	International Code Council
IEEE	The Institute of Electrical and Electronics Engineers
ISO	International Organization for Standardization <ul style="list-style-type: none"> • TAG – Technical Advisory Group • TC – Technical Committee
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association <ul style="list-style-type: none"> • NEC – National Electrical Code
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
PRBA	Rechargeable Battery Association
ROHVA	Recreational Off-Highway Vehicle Association
SAE	Society of Automotive Engineers
SVIA	Specialty Vehicle Institute of America
UL	Underwriters Laboratories Inc. <ul style="list-style-type: none"> • STP – Standards Technical Panel
WCMA	Window Covering Manufacturers Association

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CPSC Staff Voluntary Standards Activities
FY 2018 Annual Report
(October 1, 2017–September 30, 2018)

Adult Portable Bed Rails

Staff Contact Hall, Ian

Voluntary Standard(s) *Standard Specification for Adult Portable Bed Rails and Related Products (ASTM F3186-17)*

Mandatory Standard(s) 13-1 *Petition on Adult Portable Bedrails* docketed in June 2013.

Standard(s) Update No standards associated with this product were updated during the reporting period.

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

Activities Staff is executing a testing program to assess compliance to the voluntary standard of bed rails available on the market.

Next Action Staff will provide testing results and recommendations to the ASTM subcommittee once testing is completed. The Commission has directed staff to provide a briefing package concerning the petition.

All-Terrain Vehicles (ATVs)

Staff Contact Paul, Caroleene

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

Mandatory Standard(s) 16 CFR part 1420, *Standard for All-Terrain Vehicles*

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with SVIA to revise the 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 the hazards associated with ATVs.

Activities Staff provided SVIA (as well as ROHVA and OPEI) with 121 CPSC staff in-depth investigation (IDI) reports, completed between 2004 and 2017, regarding fire hazard-related, off-highway vehicle incidents.

Next Action For fire hazards, staff will meet with ROHVA, OPEI and SVIA to discuss the IDI reports and the recall data that were provided at the meeting in September 2018. For ATV research and development work, staff will meet with SVIA to discuss the test data in the ATV characteristics reports published between January 2017 and May 2018. No dates are scheduled for future meetings.

Amusement Rides, Trampoline Parks and Adventure Attractions

Staff Contact McCallion, Richard

Voluntary Standard(s)

Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices (ASTM F770-18)

Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices (ASTM F1193-18a)

Practice for Measuring the Dynamic Characteristics of Amusement Rides (ASTM F2137-18)

Standard Practice for Auditing Amusement Rides and Devices (ASTM F2974-19)

Standard Practice for Design of Amusement Rides and Devices (ASTM F2291-18)

Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts (ASTM F2970-17)

Mandatory Standard(s)

N/A

Standard(s) Update

ASTM F2974-19, the latest revision to the *Standard Practice for Auditing Amusement Rides and Devices*, was approved and published in January 2019.

ASTM F1193-18a, the latest revision to the *Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices* was approved and published December 2018.

ASTM F2137-18, the latest revision to the *Practice for Measuring the Dynamic Characteristics of Amusement Rides* was approved published in November 2018.

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

Activities Staff attended task group meetings from February 13-16, 2019, in Houston, TX, where recent ballot results were discussed. The subcommittee considered developing an umbrella standard to ASTM F770-18, and a new task group was established to review the references and dates in existing standards. Task group meetings were also held in February. The Evolution (EVO) I task group reviewed current plans to address corrosion hazards. The latest ballots were intended to address these issues. Updates to the standard are progressing; however, another round of balloting is needed, based on persuasive negative votes. After the next revisions, the task group will proceed to address aging/orphan rides. The EVO II task group reviewed the ballot results for ASTM F1193. Editing language in the ballot is needed to address negative votes. This includes updating the language related to retention of documents. New language will include specific time frames and eliminate open-ended language. ASTM issued another ballot containing ballot items for F2291-18, F2974-19, and F770-18 on March 22, 2019. The ballot results were not known at the end of the reporting period.

Next Action Staff will continue to review ballot results and will attend and participate in the next task group and committee meetings scheduled for October 2019.

Baby Changing Products (formerly Changing Tables)

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Baby Changing Products for Domestic Use (ASTM F2388-18)*

Mandatory Standard(s) 16 CFR part 1235, *Safety Standard for Baby Changing Products*

Standard(s) Update No standards associated with this product were 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 Staff attended and participated in a subcommittee meeting held on October 16, 2018. The subcommittee chair reported that there were no outstanding ballots or

old business. New business included several proposed clarifications and editorial changes to the standard. The subcommittee decided to send the non-editorial changes to ballot. As of the close of the reporting period, no new ballots for changing products have been issued.

Next Action Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2019.

Bassinets/Cradles

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Bassinets and Cradles (ASTM F2194-16e¹)*

Mandatory Standard(s) 16 CFR part 1218, *Safety Standard for Bassinets and Cradles*

Standard(s) Update No standards associated with this product were updated during the reporting period.

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

Activities During the reporting period, staff attended and participated in a subcommittee meeting held on October 15, 2018, a warnings language task group meeting held on February 19, 2019, and a compact bassinet task group meeting held on March 5, 2019.

During the October subcommittee meeting, ballots for four items were discussed:

- Compact Bassinets Requirements: including definitions, stability, side height, and other aspects. The ballot received two negatives, which were discussed at length. The item was withdrawn, and the task group will consider the concerns as they rework the proposal.
- Cardboard Bassinets Lid Requirements: The ballot received six negative votes. The item was withdrawn, and the task group will consider the concerns as they rework the proposal.
- Warning Requirements for Compact Bassinets: There were two negative votes. The item was withdrawn, and the task group will consider the concerns as they rework the proposal.

- Force for Single-Action Folding Requirements. There were no negatives, but there was one comment. The subcommittee agreed to address the comment with a note.

During the task group meeting held on February 19, 2019, a proposal was reviewed to incorporate into the bassinet standard the ad hoc warning format recommendation. This work had been ongoing, but staff was unable to attend previous meetings during the government shutdown. During a task group meeting held on March 5, 2019, the compact bassinet proposal, which had been revised based on ballot results and discussions at the subcommittee meeting held in October, was reviewed. The task group chair will take the results of the task group meeting and revise the proposal, with a goal of being ready to ballot the revisions.

On March 21, 2019, ASTM issued a ballot with two items for the bassinet standard: baby box lid requirements and warnings. As of the end of the reporting period, the ballot had not closed.

Next Action Staff will review the ASTM ballot items and participate in upcoming task group meetings, including the next ASTM subcommittee meeting in May 2019.

Bath Tubs (Adult)

Staff Contact McCallion, Richard

Voluntary Standard(s) *Consumer Safety Specification for Slip-Resistant Bathing Facilities* (ASTM F462-withdrawn)

Mandatory Standard(s) NA

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM to re-establish F462, or to develop a new standard to address fall hazards associated with bath tubs and shower facilities.

Activities Staff analyzed incident data regarding adult bath tubs and drafted a letter to ASTM regarding the analysis and the continuation of the work on F462. At the end of the reporting period, the letter had not been sent.

Next Action Staff will participate in the next ASTM subcommittee meeting, when scheduled and provide support to the F462 task group.

Batteries, Fire (High-Energy Density)

Staff Contact Lee, Doug

Voluntary Standard(s)

*Standard for Rechargeable Batteries for Mobile Telephones (IEEE 1725);
Standard for Rechargeable Batteries for Multi-Cell Computing (IEEE 1625);
Standard for Safety for Lithium Batteries (UL 1642);
Safety Standards for Primary, Secondary and Lithium Batteries (ANSI/NEMA C18);
Standard for Household and Commercial Batteries (UL 2054);
Standard for Audio, Video, and Similar Electronic Apparatus–Safety Requirements (UL 60065);
Outline of Investigation for Safety of Power Banks (UL 2056);
Standard for General Requirements for Battery- Appliances (UL 2595);
Standard for Portable Power Packs (UL 2743);
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 (IEC 62133/UL62133)*

Mandatory Standard(s)

None exists exclusively for batteries.

Standard(s) Update

Staff had no activity with any revisions or reaffirmations of battery-related standards during the reporting period.

Purpose

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

Activities

See activity reports for **Self-Balancing Scooters** and **Toys** for activities related to those specific products. This report will cover other high-energy, battery-related voluntary standards work. Staff has been very active in efforts related to battery safety, including significant work outside of voluntary standards development.

Staff attended the ANSI C18 subcommittee meeting by teleconference on November 14, 2018. CPSC staff and others supported adding a recommended guideline to use a systems approach for safe design and use of products. The subcommittee will continue work on a recommended-practices guide for lithium-ion batteries.

Staff also attended the ANSI C18 subcommittee meetings held on February 20-21, 2019. The subcommittee members continued their discussion on lithium battery safety in products and the recommended guideline for safe design and use of products. The goal is to add the recommended practices to an ANSI C18-5

annex. A task group was formed, with CPSC staff as part of the membership, to outline this effort.

Next Action Staff will continue to participate in ANSI/NEMA and UL meetings to draft and harmonize requirements to eliminate or reduce overheating and fire hazards with high-energy density batteries.

Batteries, Ingestion (Button)

Staff Contact Le, Huy

Voluntary Standard(s) *Standard for Safety for Products that Incorporate Button or Coin Cell Batteries Using Lithium Technologies, (UL 4200A); Safety Standards for Primary, Secondary and Lithium Batteries (ANSI/NEMA C18)*

Mandatory Standard(s) None exists exclusively for batteries.

Standard(s) Update Staff had no activity with any revisions or reaffirmations of battery-related standards during the reporting period.

Purpose To work with the various standard developers on revising battery safety standards to address ingestion and chemical burn hazards.

Activities Staff attended ANSI C18 subcommittee meeting by teleconference held on November 14, 2018. The subcommittee intends to prepare a ballot for a “keep-out-of-reach” pictogram for coin cells. Staff also attended the ANSI C18 working group meeting for button/coin-cell batteries on March 11, 2019. The working group was formed to review requirements for ANSI C18.1 Part 2, annexes for non-lithium button cell packaging and use of the IEC pictogram requirements. The working group decided to remove a reference to “death” from the warning label since there were no known deaths associated with the non-lithium button cells. CPSC staff suggested keeping “serious injury” in the warning label because it is a possible outcome that should be noted. It was proposed that the safety alert symbol and “WARNING” signal word be changed to “CAUTION.” The participants agreed to review what is recommended in ANSI Z535.4 for signal words.

CPSC hired a contractor to observe children trying to access coin cells in assorted types of packages used in various markets. CPSC staff will provide updates at the next subcommittee meeting.

Next Action Staff will attend future meetings, including the working group meetings and the

next ANSI C18 subcommittee meeting, scheduled for June 2019. In addition, contract work on coin-cell battery packaging will continue.

Bedside Sleepers

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Bedside Sleepers (ASTM F2906-13)*

Mandatory Standard(s) 16 CFR part 1222, *Safety Standard for Bedside Sleepers*

Standard(s) Update No standards associated with this product were 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 bedside sleepers.

Activities On October 15, 2018, CPSC staff attended a subcommittee meeting on bedside sleepers. During the meeting, a new task group was formed to examine the standard for its 5-year review and renewal. Staff will participate as a member of the task group.

Next Action Staff will work with the task group and participate in the next ASTM subcommittee meeting when it is scheduled.

Bicycles

Staff Contact Paul, Caroleene

Voluntary Standard(s) *Standard Specification for Manually Operated Front Wheel Retention Systems for Bicycles – ASTM F2680-14 (and several other standards in the ASTM F08.10 subcommittee on Bicycles).*

Mandatory Standard(s) 16 CFR part 1512, *Requirement for Bicycles*

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To develop new or revised ASTM safety standards to reduce or eliminate hazards associated with bicycles and bicycle components, such as quick-release mechanisms.

Activities Staff has not had any active participation regarding voluntary standards development for bicycles in the first half of FY 2019.

Next Action Staff will prepare for and participate in the upcoming ASTM F08.10 subcommittee meeting scheduled for May 2019.

Booster Seats

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Booster Seats* (ASTM F2640-18)

Mandatory Standard(s) 16 CFR part 1237, *Safety Standard for Booster Seats*

Standards Update No standards associated with this product were 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 reviewed the incident data associated with booster seats during the reporting period.

Next Action Staff will review and analyze incident data annually and participate in the next ASTM subcommittee meeting when it is scheduled.

Candles and Candle Accessories

Staff Contact Ayers, Scott

Voluntary Standard(s) *Standard Test Method for Collection and Analysis of Visible Emissions from Candles as They Burn* (ASTM F2326-04(2015))

Standard Specification for Candle Fire Safety Labeling (ASTM F2058-07(2015))
Standard Specification for Fire Safety for Candles (ASTM F2417-17)
Standard Specification for Fire Safety for Candle Accessories (ASTM F2601-18)
Standard Specification for Annealed Soda-Lime-Silicate Glass Containers That are Produced for Use as Candle Containers (ASTM F2179-14)
Standard Guide for Terminology Related to Candles and Associated Accessory Items (ASTM F1972-13)

Mandatory Standard(s)

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

Standards Update

No standards associated with this product were updated during the reporting period.

Purpose

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

Activities

Staff participated in a candle fire safety task group to discuss possible changes to the ASTM standard including:

- Testing trimmed and un-trimmed candles,
- Requiring candles to cool to a certain temperature between testing, and
- Testing a sample size instead of an individual candle.

The next meeting will be scheduled after the series of tests is completed.

Staff and the candle incident data task group also met several times during the reporting period to discuss candle incidents. Besides reviewing CPSC incident data, the group reviewed and discussed a report from Health Canada on multiwick candles in the Canadian marketplace and their performance to the ASTM standards.

On February 8, 2019, ASTM issued a ballot item for ASTM F1972 on candle terminology. The terminology task group met on March 28, 2019, to review the ballot results. There were no negative ballots, but five voters did provide comments. Since ASTM F1972 is a glossary of terms found in the other candle standards, the group felt that suggested changes to definitions should be made to the underlying standard.

Next Action

Staff will attend and participate in future task group meetings, as scheduled, and also will attend the next ASTM subcommittee meeting scheduled in June 2019.

Carbon Monoxide (CO) Alarms

Staff Contact Brookman, Matt

<i>Voluntary Standard(s)</i>	<i>Single and Multiple Station Carbon Monoxide Alarms (UL 2034)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with UL and other stakeholders on revising the standard to address the hazards associated with carbon monoxide.
<i>Activities</i>	The National Survey regarding the use and perception of smoke and CO alarms (SCOA) started in January 2019. Staff is working with the contractors to execute the survey. There was no activity during the reporting period on the UL standard for CO alarms.
<i>Next Action</i>	CPSC staff will collect information on the changes in local codes and regulations associated with CO alarms in the areas where the SCOA survey is being deployed.

Carriages and Strollers

<i>Staff Contact</i>	Talcott, Kristen
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Carriages and Strollers (ASTM F833-15)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1227, <i>Safety Standard for Carriages and Strollers</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	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.
<i>Activities</i>	Staff attended and participated in the subcommittee meeting on October 18, 2018. During the meeting, several task group reports were discussed:

- Jogger wheel detachment: The task group is exploring adding a dynamic test for wheel detachment. The task group will collect data using the EN stroller standard's Rolling Road Test Fixture and is currently developing the test plan.
- Baby car seat combination: The task group has not met yet. CPSC staff was added to the task group.
- Test weight: The task group is working on adding a more quantitative method to determine what constitutes failure to support the test weight in Note 5. The task group chair asked the subcommittee for input on what a failure means. The task group will continue to review.
- Parking brake: The task group is looking at defining "accessibility" using an articulating arm, based on the EN Cycle Trailer Standard, but still needs to work on details of the arm, such as linkage lengths. The subcommittee discussed dual brake systems; there is disagreement about whether the standard should allow independent single-release systems, which the task group will discuss.

Staff also participated in the following task group meetings over the reporting period: Test weight task group – October 1, 2018; Parking brake task group – October 4, 2018, Jogger wheel detachment task group – March 18, 2019; and Parking brake task group – March 18, 2019. Staff also participated in a teleconference on February 11, 2019, about tricycles with stroller modes associated with them (*e.g.*, a tricycle with a handle and a reversible seat). The subcommittee chairman intends to share the incident data at the next subcommittee meeting.

On March 21, 2019, ASTM issued a ballot pertaining to a change of the test surface for strollers, to be consistent with other juvenile standards. As of the end of the reporting period, the ballot had not closed.

Next Action Staff will participate in the next ASTM subcommittee meeting, scheduled for May 2019.

Children's Folding Chairs and Stools

Staff Contact Amodeo, Vince

Voluntary Standard(s) *Standard Consumer Safety Specification for Children's Chairs and Stools* (ASTM F2613-17a)

Mandatory Standard(s) 16 CFR part 1232, *Safety Standard for Children's Folding Chairs and Stools*

Standard(s) Update No standards associated with this product were 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 children's folding chairs and stools.

Activities Staff attended and participated in the ASTM subcommittee meeting on October 16, 2018. During the meeting, the subcommittee chair discussed proposed wording developed by the scissoring task group to clarify the testing requirements for addressing pinching, shearing, and crushing injuries from folding chairs. The proposed wording was presented and discussed, but made no decision. The task group plans to continue work on the proposal.

Next Action Staff will attend and participate in the next task group meeting, scheduled for April 16, 2019.

Child-Resistant Packages (CRP)

Staff Contact Eilbert, Mark

Voluntary Standard(s) *Standard Classification of Child-Resistant Packages (ASTM D3475-18)*
Standard Terminology Relating to Primary Barrier Packaging (ASTM F17-18)

Mandatory Standard(s) Poison Prevention Packaging Act of 1970 (PPPA)

Standard(s) Update No standards associated with this product were 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 ASTM held subcommittee meetings October 3-4, 2018, in Nice, France but staff did not attend. In F02.30 Mechanical Dispensers, a second inter-laboratory study was completed for the draft ASTM *Test Method for Assessing Non-Metered Restricted Deliver Systems for Liquid Consumer Products*. ASTM issued a ballot for the test method which closed March 15, 2019. CPSC staff submitted comments on the ballot, and discussed those comments with subcommittee members in a meeting on March 29, 2019.

Next Action Staff will participate in the ASTM subcommittee meeting, scheduled for April 2019.

Clothes Dryers

<i>Staff Contact</i>	Lee, Arthur
<i>Voluntary Standard(s)</i>	<i>Standard for Electric Clothes Dryers (UL 2158)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with clothes dryer fires.
<i>Activities</i>	Staff is reviewing incident data on reported clothes dryer fires with currently made dryers and those produced before 2013.
<i>Next Action</i>	CPSC staff will inform UL of the incident data analysis when it is completed.

Clothing Storage Units (formerly Furniture Tip-overs)

<i>Staff Contact</i>	Taylor, Michael
<i>Voluntary Standard(s)</i>	<i>Standard Safety Specification for Clothing Storage Units (ASTM F2057-17)</i> <i>Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s) (ASTM F3096-14)</i>
<i>Mandatory Standard(s)</i>	ANPR published November 2017 (82 FR 56752, Nov. 30, 2017)
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with furniture tip-over incidents.
<i>Activities</i>	Staff continued to collect and test clothing storage units to determine compliance with the current voluntary standard ASTM F2057-17. In addition, staff continued to develop alternative testing protocols to look at known use conditions such as multiple drawers opened, climbing on dressers, etc. The testing will continue through the end of FY 2019 and into FY2020.

During the reporting period, staff attended and participated in several ASTM task group meetings where potential revisions to the standard were discussed:

- Scope task group: October 4, 2018; December 19, 2018; and March 8, 2018
- Age/Weight task group: October 30, 2018
- Freestanding Furniture task group: November 6, 2018
- Operational Slide Length task group: November 5, 2018
- Testing task group: February 15, 2019

Staff also attended and participated in three subcommittee meetings during the reporting period:

- November 7, 2018 (Held at CPSC National Product Testing and Evaluation Center)
- February 20, 2019 (Held at ASTM Headquarters, staff participated via teleconference due to weather)
- March 14, 2019 (Teleconference only)

During these meetings, task group chairs reported on the progress of the task group and potential ballot items were discussed.

On October 12, 2018, staff sent a letter to an ASTM task group chair providing data analysis relating to the age and weight of children involved in clothing storage unit-related fatalities. This data analysis supplemented the analysis that staff provided in the summer of 2018. Letters were also sent from members of the Commission and the Office of the Executive Director during the reporting period. In November, 2018, Commissioner Elliot Kaye sent a letter to Wayfair urging them to consider participating in the voluntary standards process with ASTM. On February 27, 2019, DeWane Ray, Deputy Executive Director sent a letter to manufacturers, importers, distributors and retailers of clothing storage units. This letter informed industry that CPSC's Office of Compliance regards clothing storage units that fall within the scope of ASTM F2057-17 but do not meet its requirements as having a defect under Section 15(a) of the CPSA and that CPSC's Office of Compliance would initiate an investigation. Also on February 27, 2019, the CPSC Acting Chairman sent a letter to ASTM asking the ASTM subcommittee to increase the test weight used in ASTM F2057 from 50 to 60 pounds and to expand the scope to storage units that are between 27 and 30 inches in height.

ASTM had several open ballots containing proposals for ASTM F2057 during the reporting period:

- Ballot F15 18-09 (closed Oct 11, 2018) Item #15 - Changes to the operational slide length. This ballot item did not pass as it received several negatives. Staff submitted an abstention vote with comment and provided suggested wording changes to what had been balloted.
- Ballot F15 19-01(closed March 11, 2019) Item #9 – Changes to the scope, terminology and rationales. This ballot item did not pass as it received several negatives. Staff did not vote but submitted a comment letter.

- Ballot F15 19-03 (closes on April 30, 2019)
 - Item #6 – Revised scope to 27” and higher and provided a definition for nightstand.
 - Item #7 – Revised the test weight to 60#
 - Item #8 – Revised the scope to cover children up to 72 months of age.
 - Item #9 – Upholding a subcommittee vote finding a previous negative vote regarding warnings non-persuasive.

At the end of the reporting period, ballot F15 19-03 was still open and thus the ballot results were not known.

Next Action Staff will continue testing of clothing storage units and will participate in the task groups established by the subcommittee. Staff will attend the next ASTM subcommittee meeting on May 10, 2019, where the latest ballot results will be reviewed.

Commercial Cribs

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Commercial Cribs (ASTM F2710-13)*

Mandatory Standard(s) 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 No standards associated with this product were 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 ASTM did not hold any subcommittee or task group meetings on commercial cribs during the reporting period.

To monitor the adequacy of the mandatory standard and its referenced voluntary standard, staff reviewed the incident data associated with commercial cribs during the reporting period. Incidents with potential new hazard patterns were discovered and noted for discussion with ASTM.

Next Action CPSC staff will discuss the incident data with ASTM during the next subcommittee meeting, which has not yet been scheduled.

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

Staff Contact Lee, Doug

Voluntary Standard(s) *Remote Software Updates (UL 5500),
Software Cybersecurity for Network-Connectable Devices (UL 2900)
Standard Guide for Ensuring the Safety of Connected Devices (ASTM Draft)*

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with UL and ASTM on revising standards and developing new standards to address hazards associated with connected consumer products.

Activities Staff attended and participated in an ASTM working group meeting on February 15, 2019. The meeting was an exploratory meeting to gauge interest in developing an ASTM standard for Internet-connected products. The group discussion started with a review of a draft ASTM standard. The group supported developing a standard for connected devices. During the meeting, a whitepaper released by CPSC's Commissioner Kaye titled, "Considerations for Consumer Product Safety," was discussed. The working group determined that product safety would be the focus of the standard and that privacy issues would not be directly addressed. However, the working group expressed the belief that by addressing safety, many of the privacy issues also would be addressed. CPSC staff discussed internal efforts to look at incident data. The present UL standards were also discussed for UL-certified products. CPSC staff believes that a similar approach is needed to address ASTM-certified products and that the NIST 8228 framework should be applied, as needed. In March 2019, CPSC staff drafted the initial scope language for the standard and submitted it to the working group for review and discussion. The ASTM working group met again on March 29, 2019, and reviewed and edited the draft scope.

Next Action Staff will attend and participate in upcoming ASTM meetings and UL meetings associated with connected products.

Crib Bumpers (Infant Bedding)

Staff Contact Smith, Tim

***Voluntary
Standard(s)***

Standard Consumer Safety Performance Specification for Infant Bedding and Related Accessories (ASTM F1917-12)

***Mandatory
Standard(s)***

12-2 *Petition on Crib Bumpers* docketed in June 2012; Petition granted in May 2013; Section 104 of the CPSIA (under development)

***Standard(s)
Update***

No standards associated with this product were updated during the reporting period.

Purpose

To work with ASTM on revising the 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 and participated in the ASTM subcommittee meeting held on October 16, 2018, where members reviewed ballot results. The ballot contained a new definition for “crib liners,” which, as defined in the ballot, include crib bumpers, crib mesh liners, and similar products. Staff wrote a letter in response to the ballot, abstaining from voting, but providing an editorial comment. The ballot received a persuasive negative vote. The subcommittee concluded that the definition should go back to the task group, to consider these points and revise the ballot. Staff was active in two different task groups, the bumper attachment group and the definitions group. Staff attended meetings for these two task groups on October 31, 2018 (bumper attachments) and November 15, 2018 (bumper attachment and definitions).

On February 8, 2019, ASTM issued a ballot containing an item on infant bedding. The ballot item was a revised definition for “crib liners,” in response to the previous ballot’s persuasive negative vote. CPSC staff wrote a letter supporting the ballot. The ballot item received one negative and one editorial comment.

On March 22, 2019, staff attended a task group meeting on updating the infant bedding standard. A proposed ballot item was reviewed, and the task group recommended revising the ballot item to accomplish the following:

- 1) remove the new attachment requirements and test methods that had been developed by the bumper attachment task group, so the task group could refine the requirements;
- 2) add missing elements of the Ad Hoc Language warning and instructional literature recommendations;
- 3) remove some revisions shown in the warning section of the ballot that are not related to the Ad Hoc Language recommendations;
- 4) change all references to bumper “ties,” in the requirements and test methods, to state instead, “attachment means”; and

- 5) add a definition of “conspicuous,” which CPSC staff drafted and had offered to share with the task group lead.

Next Action Staff will continue to participate in ASTM task group and subcommittee meetings on infant bedding, planned for May 2019.

Crib Mattresses (including Supplemental and Aftermarket Mattresses)

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Crib Mattresses (ASTM F2933-18)*

Mandatory Standard(s) Petition CP 15-2: *Petition Requesting Ban on Supplemental Mattresses for Play Yards with Non-Rigid Sides*, and Section 104 of the CPSIA (to be developed)

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM on revising the 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 Staff attended and participated in the subcommittee meeting held on October 15, 2018. During the meeting, the task group chair provided updates:

- Cyclic testing: The task group reported that they had considered two potential cyclic tests for mattress integrity. One is based on the crib impact test, the other a rolling test based on the rolling test for adult mattresses. After discussions, the subcommittee recommended focusing on the impact test.
- Mattress firmness: The task group reported that they had considered a firmness test, but decided against pursuing it due to the lack of incidents that clearly attributed an incident occurring because of a “soft” mattress.
- Standard language improvements: The group discussed changing the title of the standard from “crib mattresses” to “infant mattresses” because the standard is now covering full-size cribs, non-full-size cribs, and aftermarket play yard mattresses.
- Non-segmented mattresses: The task group reported that it is moving along with a proposal, but anticipates at least one more meeting.

Next Action Staff will participate in the crib mattress task groups and subcommittees. The next subcommittee meeting is scheduled for May 2019.

Electric Fans

Staff Contact	Lee, Arthur
Voluntary Standard(s)	<i>Standard for Electric Fans (UL 507)</i>
Mandatory Standard(s)	N/A
Standard(s) Update	The 10 th Edition of UL 507, Standard for Electric Fans was revised and published on November 6, 2018. The revisions include changes to the reference standards, the addition of a static load test for ceiling inset fans, and modifications to the ceiling fan blade-edge requirements.
Purpose	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with electric fans.
Activities	Staff led a UL working group tasked with implementing new thermal aging and end-of-life, forced-failure testing requirement for fans or motors in unattended areas. Staff led and participated in working group meetings held on November 9, 2018, December 4, and December 6, 2018. The working group submitted a proposal that was discussed and edited at the STP meeting held on February 26, 2019. Based on the STP meeting, the task group will reconvene to consider the STP input.
Next Action	CPSC staff will continue to provide leadership and participate on the UL STP to develop the proposal presented to the STP.

Expansion Gates and Expandable Enclosures

Staff Contact	Nesteruk, Hope
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures (ASTM F1004-18)</i>
Mandatory Standard(s)	Under development in accordance with Section 104 of the CPSIA
Standard(s) Update	No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM on revising the standard to: (1) strengthen its safety provisions addressing hazards, and (2) form the basis of a federal standard intended to reduce hazards associated with gates and enclosures.

Activities Staff participated in a subcommittee meeting held on October 16, 2018. During the meeting, the subcommittee reviewed the ballot results for two ballot items: (1) raising the minimum average push-out force for all gates from 10 pounds to 30 pounds and allow for the use of wall- cups to meet this requirement; and (2) warning label language (regarding the installation and use of wall cups). The ballot received a negative vote, and the subcommittee found the negative to be persuasive.

Staff participated in the push-out task group meeting on November 5, 2018, where the ballot item for the push-out requirement was reworked. ASTM published the new ballot item a week later, and it received one negative vote. The subcommittee met again on January 23, 2019 (staff was unable to attend due to the government furlough). During the meeting, the subcommittee voted and found the negative to be non-persuasive. ASTM sent out another ballot on March 6, 2019, to uphold the subcommittee's non-persuasive vote. As of the end of the reporting period, the ballot had not closed.

Next Action Staff will participate at the next ASTM subcommittee meeting set for May 7, 2019. Staff continues to develop an NPR briefing package in FY 2019.

Fireworks

Staff Contact Valliere, Rodney

Voluntary Standard(s) Various AFSL standards and APA 87-1, *Standard for Construction and Approval for Transportation of Fireworks, Novelties, and Theatrical Pyrotechnics*

Mandatory Standard(s) 16 CFR § 1500.17, *Banned Hazardous Substances* and 16 CFR part 1507, *Firework Devices*

Standard(s) Update No standards associated with this product were updated during the reporting period.

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

Activities At the end of FY2018, staff submitted a briefing package to the Commission recommending that the Commission amend the regulations in 16 CFR parts 1500 and 1507. On October 3, 2018, staff briefed the Commission on how the

recommended final rule would, among other things, incorporate by reference sections of APA 87-1 to define terms used in the regulation. Various sections in APA 87-1, including definitions, metal content, 1 percent allowance for metal content, device limits, and base attachment provisions remain consistent with staff's recommended final rule. The only difference between the recommended final rule and APA 87-1A is how the break charge ratio is determined. The Commission has not yet voted on amending the regulations.

In January 2019, AFSL held a Standards Committee Meeting that staff was unable to attend due to the government furlough. In February 2019, staff attended the APA Winter Educational Conference where no updates were made to their current standard. APA is currently awaiting for DOT to incorporate by reference their proposed updates to their standard.

Next Action Staff will continue to attend and participate in AFSL and APA meetings, when scheduled.

Flammable Refrigerants

Staff Contact Ayers, Scott

Voluntary Standard(s)

Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers (CANENA/UL 66335-2-24)
Standard for Dehumidifiers (UL 474 Edition 10)
Standard for Room Air Conditioners (UL 484 Edition 9)
Safety Standard for Refrigeration Systems (ANSI/ASHRAE 15)
Designation and Safety Classification of Refrigerants (ANSI/ASHRAE 34)
Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers (UL 60335-2-40)

Mandatory Standard(s)

N/A

Standard(s) Update

No standards associated with this product were updated during the reporting period.

Purpose

To work with standards developers to revise the standards to strengthen the safety provisions addressing hazards associated with flammable refrigerants (also known/marketed as “natural refrigerants”) used in household refrigerators, freezers, and air conditioners.

Activities

Staff participated in several task meetings during the reporting period regarding

flammable refrigerants in room air conditioner units. There were no task group meetings associated with household refrigerators during the reporting period. During the October 9–11, 2018 CANENA (UL) 60335-2-40 meeting, the task group continued to resolve comments made on a previous ballot with a goal to issue another ballot as soon as possible. The group met again on February 18-19, 2019. Staff attended on February 19, via teleconference. The task group continued to work on comments submitted.

Staff also attended and participated in two ASHRAE flammable refrigerant odorant project meetings on October 17, 2018, and November 8, 2018. During the meetings, ASHRAE's contractor reviewed the progress on the odorant study.

Next Action Staff will attend and participate in the CANENA/UL working group meeting set for April 10–12, 2019. In addition, staff will continue to work with the committees investigating the general safety of flammable refrigerants and flammable refrigerant systems.

Flame-Mitigation Devices (FMDs) on Disposable Fuel Containers

Staff Contact Scott Ayers

Voluntary Standard(s) ASTM WK60590 (potential new standard for FMDs in development)

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM to develop a voluntary safety standard with requirements for flame-mitigation devices (FMDs) for disposable flammable liquid fuel containers used in open-flame consumer applications.

Activities ASTM published a revised standard for Gasoline Containers (see page 34 of this report for more details) with a requirement for a flame-mitigation device. That published requirement will help with the development of the new standard for disposable fuel containers.

The ASTM task group, led by CPSC staff's, Scott Ayers, met three times during the reporting period: November 6, 2018, December 13, 2018 and March 12, 2019. During the November meeting, a CPSC contractor delivered a presentation on the contract work that includes measuring the velocity of the fuel stream of various disposable containers to find worst-case velocities. The velocity will then be duplicated in testing, and the performance of FMDs with the worst-case squeezing

velocity will be compared to the performance without squeezing. During the December meeting, the task group discussed the scope of the standard. During the March meeting, the task group further discussed the scope of the standard, and the CPSC contractor provided the task group with an update.

Next Action Staff will participate in future ASTM task group and subcommittee meetings when scheduled.

Frame Child Carriers

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Frame Child Carriers (ASTM F2549-14a)*

Mandatory Standard(s) 16 CFR part 1230, *Safety Standard for Frame Child Carriers*

Standard(s) Update No standards associated with this product were 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 frame child carriers.

Activities Staff has not had any active participation regarding voluntary standards development for frame child carriers in the first half of FY 2019.

Next Action Staff will review incident data and participate in the next ASTM subcommittee meeting, when scheduled.

Full-Size Cribs

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Full-Size Cribs (ASTM F1169-13)*

Mandatory Standard(s) 16 CFR part 1219, *Safety Standard for Full-Size Cribs*

***Standard(s)
Update***

No standards associated with this product were updated during the reporting period.

Purpose

To work with ASTM on revising the 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 attended the ASTM subcommittee meeting on October 15, 2018. ASTM balloted two items in September 2018, and the ballot results were discussed at the subcommittee meeting on October 15, 2018. The crib accessories ballot received one negative regarding the terminology used in the ballot item. The subcommittee found the negative persuasive, and the item was withdrawn. A new task group was formed to address the concerns. The ballot item regarding the location of the warning labels for full-size cribs passed with comments only. One editorial change will be made before publication. As of the end of the reporting period, ASTM had not published the revised standard.

Next Action

Staff will participate in the next subcommittee meeting, when scheduled. Staff also anticipates preparing a Commission memorandum regarding the update of 16 CFR part 1219, after ASTM publishes F1169-19 and notifies the Commission of the revision.

Gas Appliances, CO Sensors (formerly Furnaces – CO Sensors)

Staff Contact Jordan, Ronald

***Voluntary
Standard(s)***

Gas-Fired Central Furnaces (ANSI Z21.47)
Gas-Fired Low Pressure Steam and Hot Water Boilers (ANSI Z21.13)
Vented Gas-Fired Space Heating Appliances (ANSI Z21.86)

***Mandatory
Standard(s)***

N/A

***Standard(s)
Update***

No standards associated with this product were updated during the reporting period.

Purpose

To work with technical committees on revising the 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 had no activity relating to gas appliance voluntary standards for the first half of FY 2019.

Next Action Staff will attend the next working group meeting, which has not been scheduled.

Gas Grills

Staff Contact Ayers, Scott

Voluntary Standard(s) *Outdoor Cooking Gas Appliances (ANSI Z21.58b-2018/CSA 1.6-2018)*

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with CSA on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard addresses hazards associated with gas grills and other outdoor gas cooking appliances.

Activities Staff had no activity relating to gas grills voluntary standards for the first half of FY 2019.

Next Action Staff will attend and participate in the next task force meeting, set for April 2019.

Gasoline Containers, Child Resistance

Staff Contact Ayers, Scott

Voluntary Standard(s) *Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use (ASTM F2517-17)*

Mandatory Standard(s) 16 CFR part 1460, *Children's Gasoline Burn Prevention Act Regulation*

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM on revising the 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 associated with portable fuel containers.

Activities Staff had no activity relating to ASTM F2517-17 for the first half of FY 2019.

Next Action Staff will continue to monitor and participate in the standard development, as appropriate.

Gasoline Containers, Flame-Mitigation Devices (FMD)

Staff Contact Ayers, Scott

Voluntary Standard(s) *Standard Specification for Portable Fuel Containers (ASTM F852-08)*
Standard Specification for Cautionary Labeling of Portable Gasoline Kerosene, and Diesel Containers for Consumer Use (ASTM F839-15)
Standard Specification for One Time Use Portable Emergency Fuel Containers (PEFC) for Use by Consumers (ASTM F2874-12)
Standard Specification for Flame Mitigation Devices on Portable Fuel Containers (ASTM F3326-19)

Mandatory Standard(s) NA

Standard(s) Update ASTM F3326-19 *Standard Specification for Flame Mitigation Devices on Portable Fuel Containers* was approved and published during the reporting period as a new ASTM standard.

Purpose To work with ASTM on revising the standards to strengthen safety provisions addressing hazards associated with flammable liquid containers.

Activities On October 30, 2018, ASTM issued a ballot containing items for both the new standard for Flame-Mitigation Devices (F3326) and Portable Fuel Containers (F852). Both ballot items received negative votes, and the ballots were pulled. After review by the task groups, both ballot items were reballoted on February 8, 2019. The ballot for the new standard on “Flame-Mitigation Devices on Portable Fuel Containers” passed and is now an approved and published standard. The ballot item for F852 received four different negative votes, which remained unresolved at the end of the reporting period.

Next Action Staff plans to attend future ASTM F15.10 task group and subcommittee meetings and NFPA 30 committee meetings.

Hand-Held Infant Carriers

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Hand-Held Infant Carriers (ASTM F2050-16)*

Mandatory Standard(s) 16 CFR part 1225, *Safety Standard for Hand-Held Infant Carriers*

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM on revising the 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 carriers.

Activities Staff attended and participated in ASTM subcommittee meetings for handheld carriers on October 17, 2018, where the following task groups reported:

- Falls from shopping carts: The task group shared an example pictogram, and the subcommittee made several suggestions. The subcommittee chair will make the modification and send to ballot.
- Handle strength: The subcommittee chair presented the results of the task group work, which included a recommendation to add static and dynamic tests for non-rigid, non-rotating handles. The proposal was discussed, and the task group will continue to work on the proposal.
- Incident data: The subcommittee chair described the recent incident data, which the task group will review at the next meeting.

The subcommittee also formed a new task group to address the ad hoc formatting requirements for warnings, along with other warning issues.

Next Action Staff will attend and participate in the next subcommittee meeting, scheduled for May 2019.

High Chairs

Staff Contact Marques, Stefanie

Voluntary Standard(s) *Standard Consumer Safety Specification for High Chairs (ASTM F404-18a)*

***Mandatory
Standard(s)***

16 CFR part 1231, *Safety Standard for High Chairs*

***Standard(s)
Update***

ASTM F404, *Standard Consumer Safety Specification for High Chairs*, was revised during the reporting period to add an exemption for reclining high chairs intended for infants who are unable to sit upright unassisted, to the stability requirements in the standard.

Purpose

To work with ASTM on revising the 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 attended and participated in the October 18, 2018, where the subcommittee reviewed recent ballot results pertaining to the proposal to exempt from the stability requirements reclined seat high chair products intended for infants who are unable to sit upright unassisted and under 20 pounds. The ballot received four negative votes: The first negative vote discussed was submitted because the voter thought that the exemption should have a time limit. The subcommittee agreed that a time limit was a good idea, but stated that it would not be appropriate to have a time limit written in a new standard. After discussion, the subcommittee agreed to a 1-year time limit, with a deadline of October 2019. Since the time limit issue was resolved, the negative vote was withdrawn.

The second negative vote was submitted because the voter thought it was unclear what products were being exempted from the stability requirements. The chairman offered to send a new ballot with a note clarifying that products with positions in addition to the reclined position must still be tested to the stability requirements. Since the clarification issue was resolved, the negative vote was withdrawn.

The third negative voter objected to the wording of the exemption. The chair stated that he had discussed the voters' concerns and explained that it was best to define the exempted products by intended weight and developmental milestone because it would be challenging to define what angle was considered a reclined position. Based on the discussion with the chair before the meeting, the voter withdrew the negative vote. The fourth negative voter had several wording changes to the ballot, which were discussed and deemed editorial changes. Therefore, this negative was also withdrawn.

Since the negatives were withdrawn and/or resolved, the ballot passed, and ASTM F404-18a was approved and published.

The chairman asked the subcommittee members who are testing reclined seat products to submit feedback/results of their testing by December 15, 2018. CPSC hosted the reclined seat task group meeting at CPSC's National Product Testing and Evaluation Center on March 20, 2019. The task group observed staff's testing

of reclined seat products, and staff demonstrated several methods for stability testing of reclined high chairs. The task group discussed the pros and cons of each test method and is developing a method to present for ballot consideration.

On Oct 30, 2018, ASTM issued a ballot containing four items for the high chair standard:

- 1) Addition of a note explaining what products are subject to the stability testing. This ballot item received two negative votes.
- 2) Revision (ad hoc) of the toy accessories requirement. This ballot item passed.
- 3) Revision of the instructional literature section to be consistent with the labeling section. This ballot item received a negative vote.
- 4) Revision of the tray disengagement pull test to add front torso supports to the requirement. This ballot item passed.

Next Action Staff will participate in the next ASTM subcommittee meeting, scheduled to occur in April 2019.

Infant Bath Seats

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Infant Bath Seats (ASTM F1967-18)*

Mandatory Standard(s) 16 CFR part 1215, *Safety Standard for Infant Bath Seats*

Standard(s) Update ASTM F1967-18 *Standard Consumer Safety Specification for Infant Bath Seats* was approved and published in December 2018. The revision includes several changes to the standard, including updated stability requirement and test procedures, attachment components definition and requirements, static load requirements, suction cup requirements and test procedure, latching and locking requirements, and warning labels.

Purpose To work with ASTM on revising the 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 Staff attended the subcommittee meeting held on October 16, 2018, where the results of the most recent ballot were reviewed. A new revision of the standard was approved and published, and during review of the revised standard, staff found an issue in the test surface requirement. On March 21, 2019, ASTM issued a ballot item to change the test surface requirement for consistency. As of the end

of the reporting period, the ballot had not closed; thus, the results of the ballot were not known.

Next Action Staff will review the ASTM ballot results when they are published. When notified by ASTM that they have published a revised standard, staff will provide a briefing package to the Commission reviewing the updated standard.

Infant Bath Tubs

Staff Contact Kish, Celestine

Voluntary Standard(s) *Consumer Safety Specification for Infant Bath Tubs (ASTM F2670-18)*

Mandatory Standard(s) 16 CFR part 1234, *Safety Standard for Infant Bath Tubs*

Standard(s) Update 16 CFR part 1234, *Safety Standard for Infant Bath Tubs* was revised during the reporting period to reference the latest revision of the voluntary standard, ASTM F2670-18. The revision contains updates to almost all sections of the standard.

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 Staff presented a briefing package to the Commission, recommending that the latest revision of the voluntary standard, ASTM F2670-18, become the CPSC-mandated standard and to approve publication of a direct final rule in the *Federal Register* to revise the reference to ASTM F2670-18. On October 15, 2018, the Commission voted unanimously to accept F2670-18 as the new standard for reference in 16 CFR part 1234. The effective date was January 15, 2019.

Staff attended and participated in the ASTM subcommittee meeting held on October 16, 2018, where the Commission vote was discussed.

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

Infant Bouncer Seats

Staff Contact Wanna-Nakamura, Suad

<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Infant Bouncer Seats (ASTM F2167-17)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1229, <i>Safety Standard for Infant Bouncer Seats</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	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.
<i>Activities</i>	There have been no voluntary standards meetings or activities during the first half of FY 2019.
<i>Next Action</i>	ASTM expects to publish a revision to the standard in June 2019 to align with CPSC's regulation 16 CFR part 1229. Staff will continue to provide technical assistance to the subcommittee, participate in task groups, and attend the next subcommittee meetings, when scheduled.

Infant Inclined Sleep Products

<i>Staff Contact</i>	Kish, Celestine
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Infant Inclined Sleep Products (ASTM F3118-17a)</i>
<i>Mandatory Standard(s)</i>	<i>NPR Standard Consumer Safety Specification for Infant Inclined Sleep Products (82 FR 16963 (April 7, 2017)).</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on revising the standard to: (1) strengthen its safety provisions addressing hazards, and (2) form the basis of a federal standard intended to reduce hazards associated with inclined sleep products.
<i>Activities</i>	Staff attended and participated in the ASTM subcommittee meeting held on October 16, 2018. During the meeting, the previous ballot activity was discussed. There are three ballot items that have passed but have not yet been incorporated

into the standard, including changes to the scope and electrical requirements.

The roll-over task group also discussed revised labeling requirements, including visibility requirements for the roll-over warning label. The visibility requirement is similar to the restraints label visibility requirement found in the CPSC infant bouncer regulation (16 CFR part 1229). After much discussion, the subcommittee decided to send out the new markings and labeling requirements and also the test method to determine visibility of the warning label. The roll-over task group met on March 19, 2019, and finalized the ballot item. The ballot was issued March 28, 2019; thus, the results were unknown at the end of the reporting period.

Next Action CPSC staff will participate in the next ASTM subcommittee meeting, scheduled for May 2019. A revised standard is expected to be published in FY 2019.

Infant Swings

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Infant Swings (ASTM F2088-15)*

Mandatory Standard(s) 16 CFR part 1223, *Safety Standard for Infant Swings*

Standard(s) Update No standards associated with this product were 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 swings.

Activities Staff attended and participated in the ASTM subcommittee meeting held on October 16, 2018. Future ballot items were discussed and a task group to address battery related issues was established.

On October 30, 2018, ASTM issued two ballot items regarding infant swings: (1) incorporating ad hoc language in the marking and labeling sections, and (2) adding an entanglement requirements for products with tethered straps. Both ballot items received negative votes.

On March 13, 2019, a task group met to discuss the entanglement requirement ballot. One of the negatives was found to be persuasive, and the task group developed new language to address the negative.

On March 28, 2019, ASTM issued another ballot containing the revised entanglement requirement. The ballot results were not known at the end of the reporting period.

Next Action Staff will attend and participate in the next subcommittee meeting, scheduled for May 2019.

Infant Walkers

Staff Contact Mordecai, Ben

Voluntary Standard(s) ASTM *Standard Consumer Safety Performance Specification for Infant Walkers* (ASTM F977-18)

Mandatory Standard(s) 16 CFR part, 1216 *Safety Standard for Infant Walkers*

Standard(s) Update No standards associated with this product were 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 Staff attended and participated in the subcommittee meeting held on October 18, 2018. During the meeting, the subcommittee chair announced his intention hold notice to CPSC, (under Pub. L. No. 112-18), until after the next round of revisions, which are expected to contain more substantive changes. A task group evaluating the standard for improvements met on October 3, 2018, and provided a report to the subcommittee at the meeting held on October 18, 2018. The task group goal is to have ballots to present at the next subcommittee meeting in May 2019.

Next Action Staff will continue to participate on the task group and also will attend and participate in the next subcommittee meeting, scheduled for May 2019.

Liquid Laundry Packets

Staff Contact Hurley, Jill

Voluntary Standard(s) *Standard Safety Specification for Liquid Laundry Packets* (ASTM F3159-15)

<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with liquid laundry detergent packets.
<i>Activities</i>	<p>Staff attended and participated in the ASTM Additional Measures task group meeting held on December 11, 2018. The focus of the group is to examine other measures to decrease poisoning and injuries with liquid laundry packets. The intent of the task group is to gather best practices from other industries and bring ideas to the larger subcommittee.</p> <p>The group discussed the European Union (EU) Report from the International Association for Soaps, Detergents and Maintenance Products. The report noted that EU will be making improvements to their child-impeding closures testing in their voluntary standard, as well as creating an education campaign to raise awareness for safe product use.</p> <p>The group reviewed the current compression test requirement in ASTM F3159 to explore a method of testing that more mimics more closely the bite of children. However, the only known test is one that is associated with toy testing, which was not considered to be an accurate representation of a child's bite.</p>
<i>Next Action</i>	Staff will attend and participate in the next task group meeting, which has not been scheduled.

LP Gas Outdoor Fire Pits

<i>Staff Contact</i>	Kim, Yeon
<i>Voluntary Standard(s)</i>	<i>Outdoor Decorative Gas Appliances (ANSI Z21.97-2017/CSA 2.41-2017)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.

<i>Purpose</i>	To work with CSA on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard addresses hazards associated with outdoor gas decorative appliances, such as fire pits.
<i>Activities</i>	Staff conducted background research and has developed recommended modifications to the standard.
<i>Next Action</i>	Staff will develop a proposal to the standard and submit it to CSA.

Nanotechnology

Staff Contact Matheson, Joanna

Voluntary Standard(s) *New Guide for Detection and Characterization of Manufactured Silver Nanomaterials in Textiles* (ASTM E3025-16) and other ASTM standards under the E56 Nanotechnology Committee and ISO standards under the 229 Technical Committee (TC /229).

Mandatory Standard(s) N/A

Standard(s) Update Staff had no activity with any revisions or reaffirmations of nanotechnology related standards during the reporting period.

Purpose To work with ASTM and ISO technical committee on revising the standards to strengthen safety provisions addressing hazards associated with nanotechnology.

Activities Staff attended and participated in the ASTM E56 Nanotechnology committee meetings held on November 5-6, 2018. During the meeting for Nano-enabled Consumer Products, ballot results, for a new standard on the determination of total nano silver in textiles by ICP-OES or ICP-MS were reviewed. The subcommittee discussed changes to the draft so that it could be sent out again, for ballot. Also discussed at the ASTM E56 meetings were: potential projects that would fall under the E56 guide (E3025-16) on tools, an umbrella guidance document, for specific methods for measuring silver in textiles. Other standards organizations were listed that might want to collaborate on the proposed work (e.g., ISO, ASTM D13, ASTM E56.08, AATCC).

Staff also attended and participated in the AATCC session on Electronically Integrated Textiles held on November 13, 2018. Member of the ASTM subcommittee on Smart Textiles also attended the meeting. Updates were given on the ballot for the evaluation procedure to measure electrical resistance of electronically integrated textiles. Brief updates were provided on the ASTM

subcommittee work on definitions and on a potential ISO-IEC joint project on wearables.

On February 25, 2019, ASTM committee E56 issued a ballot with three new draft standards: *Guide for Reporting the Physical and Chemical Characteristics of Nan-objects*, *Guide for Reporting the Physical and Chemical Characteristics of a Collection of Nano-objects*, and *Test Method for Determination of Total Silver in Textiles by ICP-OES or ICP-MS*. The three ballots each received a negative vote. At the end of the reporting period, the negative votes were unresolved.

On February 27, 2019, staff attended and participated in a meeting of the US TAG for ISO/TC 229 Nanotechnologies. Highlights of the meeting include a review of a technical report entitled, "Evaluation of methods for assessing the release of nanomaterials from commercial, nanomaterial containing polymer composites." This report is the result of the Nanorelease project that received significant support from CPSC staff. There was also a discussion of developing a work item based on research conducted through an interagency agreement between staff from both CPSC and EPA, to research methods to evaluate the release of nanoparticles from treated surfaces.

Next Action Staff will continue to be active in both the ASTM E56 subcommittee and with the US TAG to ISO TC/229.

National Electrical Code

Staff Contact Lee, Doug

Voluntary Standard(s) *National Electrical Code, NFPA 70 (2017)*

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with the NFPA on revising the standard, to strengthen its safety provisions addressing hazards associated with electrical fires, carbon monoxide poisoning, and shock incidents associated with consumer products, including appliances, pools and spas, generators, electrical equipment, and wiring products.

Activities Staff attended and participated in two code-making panels (CMP2 and CMP17) during the reporting period. The panels are tasked with creating a second draft revision for the 2020 NEC based on consideration of public comments. On October 4-5, and October 22-26, 2018, staff attended the CMP2 task group and

panel meetings, which covered branch circuits, feeders, and service calculations. During the panel meetings, CMP2 discussed and acted on 120 public comments on the first draft revisions for the 2020 edition of the *National Electrical Code (NEC)*, Articles 210, 215, and 220. CMP2 continued to support the expansion of ground-fault circuit-interrupters (GFCIs) to reduce electrical shock and electrocution hazards and the use of arc-fault circuit-interrupters (AFCIs) to mitigate the effects of arcing hazards that cause fires in electrical wiring and power cords. However, expansion of AFCI technology was not supported at this time, due to some concern in addressing reports of unwanted tripping.

CPSC staff attended and participated in the CMP17 meeting held on October 29-31, 2018. CMP 17 covers *NEC* Articles 422 (Appliances), 424 (Fixed Electric Space Heating Equipment), 426 (Fixed Outdoor Electric Deicing and Snow-Melting Equipment), 427 (Fixed Electric Heating Equipment for Pipelines and Vessels), 680 (Swimming Pools, Fountains, and Similar Installations) and 682 (Natural and Artificially Made Bodies of Water). CMP 17 acted on 141 public comments and also developed and approved panel revisions.

Next Action Staff will attend future meetings in support of NEC safety requirements and consider revisions for the next edition of the NEC.

Non-Full-Size Cribs and Play Yards

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards (ASTM F406-17)*
Standard Consumer Safety Specification for Crib Mattresses (ASTM F2933-16)

Mandatory Standard(s) 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 No standards associated with this product were updated during the reporting period.

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

Activities On October 15, 2018, staff attended and participated in a subcommittee meeting where ballot results were discussed. ASTM Ballot F15 (18-09) contained two items, both clarifications regarding toehold requirements and mattress vertical

displacement. Both items passed, but will be held until the subcommittee is ready to publish. Two task groups provided updates during the meeting:

- Fit and Thickness (H. Nesteruk is task group chair): The task group reported that they had evaluated potential entrapment scenarios and come up with two potential performance tests regarding the fit of play yard mattresses. The group will work to refine the test method so that any probes or test apparatuses are defined for the target population.
- Ad Hoc Warnings for Play Yards: The task group reported the proposal was almost ready for ballot, but is awaiting the ad hoc committee's decision regarding the SIDS warning.

In December 2018, the Fit and Thickness task group met and new incident data were reviewed. In addition, potential performance tests were discussed, but no decisions about what test to pursue were made. A poll was conducted after the meeting, and the task group selected a static probe test, which will be developed.

Next Action

CPSC staff will continue to serve in a leadership role for the Fit and Thickness task group, and will also provide technical assistance to the subcommittee, participate in task group activities, and attend the next subcommittee meeting, scheduled for May 2019.

Playground Equipment (Home)

Staff Contact Lee, Kevin

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Home Playground Equipment (ASTM F1148-18)*

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with home playground equipment.

Activities Staff attended and participated in the subcommittee meeting held on November 2018. During the meeting, ballot results on tolerances and slide bed measurements were reviewed. The subcommittee also discussed using a "fish probe" as used in the public playground standard and European standards.

On February 8, 2019, ASTM sent out a ballot with two items for the home playground equipment standard: (1) revision of the slide geometry requirements, and (2) revision of the section on acute angles. The first item passed with

comments only; and the second item had a negative, plus three comments, including one from staff. Staff's comment did not include a vote, but suggested edits to the balloted language. These ballot items were still unresolved as of the end of the closing period.

Next Action Staff will participate in the next subcommittee meeting, scheduled for May 2019.

Playground Equipment (Public)

Staff Contact Lee, Kevin

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Public Playground Equipment (ASTM F1487-17)*

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

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

Activities Staff attended and participated in the subcommittee meeting held in November 2018. During the meeting, ballot results were reviewed. The ballot items for trolley rides and the title change (to "Public Use Playgrounds"); both had many negatives and will be reballoted.

On March 6, 2019, ASTM issued a ballot with two items for public playgrounds: (1) an exemption to all performance requirements for locations 84" or higher above any underlying climbing component, and (2) the title and scope changes. At the end of the reporting period, the ballot had not closed.

Next Action CPSC staff will participate in the next meeting, scheduled for May 2019.

Playground Surfacing

Staff Contact Lee, Kevin

<i>Voluntary Standard(s)</i>	<p><i>Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment (ASTM F1292-18)</i></p> <p><i>Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment (ASTM F1951-14)</i></p> <p><i>Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment (ASTM F3012-14)</i></p>
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	ASTM F1292-18, the latest revision of the <i>Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment</i> was approved in December 2018, and published in February 2019.
<i>Purpose</i>	To work with ASTM on revising the standard to address the hazard patterns associated with playground surfacing.
<i>Activities</i>	<p>Staff attended and participated at the ASTM subcommittee meeting held on November 17, 2017. Ballot results were discussed. A new stand-alone standard, for conducting field testing, was balloted, in addition to a ballot item to remove the field test method currently in F1292. Both ballot items received negative votes.</p> <p>On March 21, 2019, ASTM issued another ballot item for the new field testing standard. This was the fourth ballot for this standard, and it contained recommended changes from the previous ballot comments. The ballot item had not closed as of the end of the reporting period.</p>
<i>Next Action</i>	Staff will attend and participate in the next ASTM subcommittee meeting, scheduled for May 2019.

Pools, Portable (Child Drowning)

<i>Staff Contact</i>	Bathalon, Susan
<i>Voluntary Standard(s)</i>	<p><i>Standard Specification for Aboveground Portable Pools for Residential Use (ASTM F2666-16)</i></p> <p><i>American National Standard for Aboveground/Onground Residential Pools (ANSI/APSP/ICC-4a-2013)</i></p> <p><i>American National Standard Model Barrier Code for Residential Swimming Pools, Spas, and Hot Tubs (ANSI/APSP/ICC-8 2005 (R2013))</i></p>

<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM and APSP on revising the standard to strengthen its safety provisions addressing hazards associated with residential drowning in aboveground pool products.
<i>Activities</i>	<p>On October 26, 2018, staff attended and participated in an ICC Swimming pool and Spa public hearing, where potential code amendments to barriers and other safety features in residential pools were discussed.</p> <p>On November 20, 2018, staff attended and participated in an ASTM task group meeting to discuss an incident where a toddler scaled a child resistant, above-ground pool ladder and accessed the pool. The incident was captured on video. The task group discussed EN and Australian ladder standards and reviewed the interviews with the toddler's parent. The task group will look into anthropometrics for arm-span distances and slot-width for feet.</p>
<i>Next Action</i>	Staff will participate in future ASTM above-ground pool meetings, when scheduled.

Portable Bed Rails (Children's)

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Portable Bed Rails (ASTM F2085-12)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1224, <i>Safety Standard for Portable Bed Rails</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	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.
<i>Activities</i>	ASTM did not hold any subcommittee or task group meetings on children's bed rails during the reporting period. On March 6, 2019, ASTM issued a ballot for

ASTM F2085-12. There were no revisions to F2085-12 on the ballot; thus, it was a reapproval ballot. The ballot passed with no negative votes or comments.

Next Action Staff will review incident data annually and participate in the next ASTM subcommittee meeting, when it is scheduled. ASTM is expected to approve and publish the reapproved standard in May or June 2019. Staff will also provide a briefing memo to the Commission, after publication of the reapproved standard and notification by ASTM.

Portable Fireplaces

Staff Contact Ayers, Scott

Voluntary Standard(s) *Standard Specification for Unvented Liquid/Gel Fuel-Burning Portable Devices* (ASTM F3363-19)

Mandatory Standard(s) ANPR published in December 2011

Standard(s) Update ASTM F3363-19, the new *Standard Specification for Unvented Liquid/Gel Fuel-Burning Portable Devices* was approved and published in February 2019.

Purpose To work with ASTM to develop a standard to address hazards associated with the fire risk with portable, unvented liquid-fuel burning appliances.

Activities ASTM issued ballot on October 30, 2018, containing the draft new standard for Unvented Liquid/Gel Fuel-Burning Portable Devices. It received one negative vote, and some comments. The negative vote was withdrawn, and the new standard was approved in February 2019.

Next Action Staff will monitor the standard and will answer any questions that may come up.

Portable Generators

Staff Contact Buyer, Janet

Voluntary Standard(s) *Safety and Performance of Portable Generators* (ANSI/PGMA G300-2018)
Carbon Monoxide (CO) Emission Rate of Portable Generators
(UL 2201–2nd Ed/2018)

<i>Mandatory Standard(s)</i>	NPR published on November 21, 2016 (81 FR 83556)
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with UL and PGMA on revising the standards to strengthen safety provisions addressing hazards associated with portable generator carbon monoxide (CO) deaths and injuries.
<i>Activity</i>	<p>The testing and modeling work performed by NIST and CPSC to support staff's effort to evaluate the effectiveness of the two voluntary standards continued during the reporting period.</p> <p>On October 4, 2018, CPSC hosted a technical meeting to present aspects of how staff will approach evaluating the effectiveness off the CO hazard mitigation requirements in PGMA's and UL's voluntary standards. Representatives from UL and PGMA were present at the meeting.</p>
<i>Next Action</i>	Staff will attend and participate in any additional voluntary standards meetings, when scheduled. Staff will continue working with NIST to develop a simulation and analysis plan to estimate the effectiveness of the voluntary standards in addressing the carbon monoxide (CO) hazard associated with portable generators. Staff will then seek comments from the public on the plan.

Portable Hook-On Chairs

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Portable Hook-On Chairs</i> (ASTM F1235-15)
<i>Mandatory Standard(s)</i>	16 CFR part 1233, <i>Safety Standard for Hook-On Chairs</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	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 On October 18, 2018, staff attended and participated in a subcommittee meeting for hook-on chairs. There were no ballots or old business discussed. In late FY 2018, the Commission voted to allow ASTM F1235-18 to become the CPSC-mandated standard and approved publication of a direct final rule in the *Federal Register* to revise the reference to ASTM F1235-18. That standard will become effective on June 15, 2019.

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

Pressure Cookers

Staff Contact McCallion, Richard

Voluntary Standard(s) *Pressure Cookers* (UL 0136)

Mandatory Standard(s) NA

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with pressure cookers.

Activities Staff is continuing communications with UL on potential standards updates dealing with hazards associated with pressure cooker lids prematurely coming off before the pressure fully normalizing. Staff has also discussed the tests required to review and/or update the standard as needed.

Next Action Staff will provide UL with incident data relating to premature lid disengagement. Staff will participate in the next subcommittee meeting, when scheduled.

Recreational Headgear Sensors

Staff Contact Hall, Ian

Voluntary Standard(s) ASTM standards under the scope of the ASTM F08.53 subcommittee on Headgear and Helmets.

<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	Staff was not involved in any standards that were revised during the reporting period.
<i>Purpose</i>	To work with ASTM to develop and revise helmet and headgear standards, and to work with ASTM to develop a new voluntary standard for headgear sensors.
<i>Activities</i>	<p>In November 2018, staff attended and participated in the ASTM F08.53 subcommittee meeting on helmets. The subcommittee discussed multiple standards that required review. The subcommittee was in the process of developing task groups to work on reviewing those standards.</p> <p>In addition to discussing current standards, various subcommittee task groups were developing entirely new standards. Of particular interest is the head impact sensor task group. During the meeting the head impact sensor task group agreed on the draft standard's abstract and scope, and the task group is in the process of developing various methodologies to test sensor systems.</p>
<i>Next Action</i>	CPSC staff will participate in the next ASTM subcommittee meeting, set for May 2019, in Denver, CO.

Recreational Off-Highway Vehicles (ROVs)

<i>Staff Contact</i>	Paul, Caroleene
<i>Voluntary Standard(s)</i>	<i>Recreational Off-Highway Vehicles (ANSI/ROHVA 1-2016) and American National Standard for Multipurpose Off-Highway Utility Vehicles (ANSI/OPEI B71.9-2016)</i>
<i>Mandatory Standard(s)</i>	<i>NPR Recreational Off-Road Vehicles (79 FR 68964 November 19, 2014)</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ROHVA on: (1) assessing the new safety provisions in the standard addressing hazards associated with lateral stability, vehicle steering and occupant protection, and (2) to develop additional revisions, as appropriate, to the standards.

Activities Staff provided ROHVA and OPEI with 121 CPSC staff in-depth investigation (IDI) reports that were completed between 2004 and 2017, concerning fire hazard-related, off-highway vehicle incidents.

Next Action Staff will meet with ROHVA, OPEI, and SVIA to discuss the IDI reports and the recall data provided at the September 2018 meeting. A date has not been set for the next meeting.

Safety Locks and Other Household Child Inaccessibility Devices

Staff Contact Lee, Kevin

Voluntary Standard(s) None at this time

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

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

Activities On March 28, 2019, staff participated in a meeting held by the F15.76 subcommittee to discuss the proposed standard for child safety locks and latches. The subcommittee discussed the following topics pertaining to the standard:

- Limit the scope of the standard to internally mounted cabinet locks (in the interest of publishing a standard as soon as possible. The subcommittee will work on externally mounted cabinet locks after publication of this standard).
- Emphasis that this standard is not intended to examine anti-tipover devices.

Next Action CPSC staff will perform an incident data review and inform the subcommittee if the data include “commercial environments” (e.g., day cares, preschools). Staff will also provide the subcommittee with staff’s analysis on failure mechanism of internal latches. In addition, staff will attend the next meeting, scheduled for May 2019.

Self-Balancing Scooters and Light Electric Vehicles

Staff Contact Amodeo, Vince

Voluntary Standard(s)	<i>Electrical Systems for Self-Balancing Scooters</i> (UL 2272-2019) <i>Recreational Powered Scooters and Pocket Bikes</i> (ASTM F2641-15) ASTM WK57360 <i>Standard Consumer Product Specification for Self-Balancing Scooters (Hoverboards)</i> – Draft standard under development
Mandatory Standard(s)	N/A
Standard(s) Update	UL 2271 <i>Electrical Systems for Self-Balancing Scooters</i> was revised in February 2019. This revision includes requirements for battery cell connections.
Purpose	To work with ASTM and UL on developing a new standard or revising the existing standard to strengthen the safety provisions addressing hazards associated with self-balancing scooters.
Activities	The UL-ballot issued, proposing a change to the section regarding battery-cell connections, achieved consensus in FY 2018, and the new edition of the standard published in February 2019. The ASTM draft standard was finalized and is ready for ballot. ASTM intends to ballot the draft concurrently as a national standard of Canada.
Next Action	Staff will attend and participate in the next ASTM task group meeting, when scheduled.

Sling Carriers (Infant and Toddlers)

Staff Contact	Nesteruk, Hope
Voluntary Standard(s)	<i>Consumer Safety Specification for Sling Carriers</i> (ASTM F2907-15)
Mandatory Standard(s)	16 CFR part 1228, <i>Safety Standard for Sling Carriers</i>
Standard(s) Update	No standards associated with this product were 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 (sometimes called “infant slings”).
Activities	On October 17, 2018, staff attended and participated in the subcommittee meeting for Sling Carriers. During the meeting, two task groups provided updates:

- **Multi-Occupant Slings/Dynamic test method:** The task group reported that they had been working on a proposal to address comments and negatives from the previous ballots for multi-occupant slings. The proposal would limit slings to two occupants (children), with the appropriate methods to test occupant areas statically and dynamically. The task group will continue work, but expects to be ready to ballot in the near future.
- **Baby wearing apparel:** The task group chair showed several pictures of baby wearing apparel, and one manufacturer attended bringing an example. The subcommittee discussed the products, whether they fall into the scope of the sling standard, as written, and whether the scope was intended to cover these products. Discussion will continue in task group.
- **A new task group was formed to consider incorporating the ad hoc formatting requirements into the sling carrier standard.** CPSC staff participates on the task group.

On March 6, 2019, ASTM issued a ballot item revising F2907-15 to address issues associated with multi-occupant slings. At the end of the reporting period, the results of the ballot were not known.

Next Action Staff will participate in the next ASTM subcommittee meeting in May 2019.

Smoke Alarms

Staff Contact Lee, Arthur

Voluntary Standard(s) *Standard for Single and Multiple Station Smoke Alarms (UL 217)*
National Fire Alarm and Signaling Code (NFPA 72)

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with UL and NFPA on potential revisions to the standards to strengthen safety provisions addressing hazards associated with smoke alarms.

Activities Staff had no activity relating to smoke alarm voluntary standards for the first half of FY 2019.

Next Action Staff will continue working with UL regarding the revision and improvement of the standard and will continue to participate in the NFPA 72 technical group to develop the next edition of the standard.

Soft Infant and Toddler Carriers

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Soft Infant and Toddler Carriers (ASTM F2236-16a)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1226, <i>Safety Standard for Soft Infant and Toddler Carriers</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	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.
<i>Activities</i>	<p>On October 17, 2018, staff attended and participated in the subcommittee for soft infant and toddler carriers. During the meeting, task groups provided the following updates reports:</p> <ul style="list-style-type: none">• Round-robin testing: Several test labs had participated in round-robin testing to address the unbounded leg opening test for back and hip carry position. Work will continue.• Flammability: The task group chair reported that the original reason for forming the task group had been a misunderstanding of the intent of the referenced tests and suggested adding clarifying language. The subcommittee discussed the test methods and felt the task group should continue work.• Fastener strength: A new task group was formed to look into expanding the fastener test to addresses the whole system of a fastener and its attachment to the carrier. <p>As of the close of the reporting period, there were unresolved ASTM ballot items from 2017 (harmonization of the terminology section) and 2018 (nursing warnings and warnings ad hoc language). The nursing warnings ballot had a negative vote, which was found by the subcommittee in May 2018, to be non-persuasive. Thus, ASTM must issue another ballot to uphold the non-persuasive negative vote. At the close of the reporting period, ASTM had not yet issued a F15 main committee ballot to uphold the subcommittee non-persuasive finding on the nursing warning ballot.</p>
<i>Next Action</i>	CPSC staff will participate in the next subcommittee meeting, scheduled in May 2019.

Sports Protective Gear/Football Helmets

Staff Contact McCallion, Richard

Voluntary Standard(s) Various headgear standards developed by NOCSAE.

Mandatory Standard(s) N/A

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with NOCSAE on revising the standards to strengthen safety provisions addressing hazards associated with football helmets.

Activities Staff participated in NOCSAE's winter meeting held on February 1, 2019 where ongoing NOCSAE research to advance a new youth football helmet was discussed. NOCSAE is also considering the development of a new flag football helmet.

Next Action CPSC staff will continue to monitor NOCSAE standards and participate in future NOCSAE board meetings. Staff will also observe at upcoming Standards Advisory Committee meetings.

Spray Polyurethane Foam (SPF) Insulation

Staff Contact Layton, Adrienne

Voluntary Standard(s) Active standards under the jurisdiction of D22.05:

Standard Practice for Spraying, Sampling, Packaging, and Test Specimen Preparation of Spray Polyurethane Foam (SPF) Insulation for Testing of Emissions Using Environmental Chambers (ASTM D7859-19)
Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers (D8142-17)

Proposed New Standards under the jurisdiction of D22.05:

New Test Method for Determination of Vapor-Phase Organic Compounds Emitted from Spray Polyurethane Foam (SPF) Using Sorbent Tubes Analyzed by Thermal Desorption Gas Chromatography and Mass Spectrometry (WK40292)

Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-Scale Spray Room (WK58354)
Estimating Emissions of Methylene diphenyl diisocyanate (MDI) from Spray Polyurethane Foam (SPF) Insulation using Emission Cells or Micro-Scale Environmental Test Chambers (WK58355)
Conducting emission and fate modeling for Spray Polyurethane Foam (SPF) insulation in an indoor environment (WK58356)

Mandatory Standard(s)

N/A

Standard(s) Update

ASTM D7859-19, the latest revision of the *Standard Practice for Spraying, Sampling, Packaging, and Test Specimen Preparation of Spray Polyurethane Foam (SPF) Insulation for Testing of Emissions Using Environmental Chambers* was approved and published in 2019. This standard was revised to be consistent with other ASTM standards using micro-scale chambers.

Purpose

To work with ASTM on developing new standards to address hazards associated with chemical emissions from spray polyurethane foam (SPF) insulation.

Activities

Staff attended and participated in the ASTM D22.05 subcommittee meeting on Indoor Air held on October 23, 2018. During the meeting the subcommittee discussed recent ballot results and the status of all the standards in the subcommittee. The subcommittee also discussed an intra-laboratory study with standardized foam to measure the emissions from the foam in a statistical manner.

Next Action

Staff will continue to provide technical support to the subcommittee and participate in the next subcommittee meeting, scheduled in April 2019.

Stationary Activity Centers

Staff Contact

Lee, Kevin

Voluntary Standard(s)

Standard Consumer Safety Specification for Stationary Activity Centers (ASTM F2012-18^{e1})

Mandatory Standard(s)

NPR Standard Consumer Safety Specification for Stationary Activity Centers, 16 CFR part 1238 (83 FR 28390), June 19, 2018

Standard(s) Update

No standards associated with this product were updated during the reporting period.

Purpose

To work with ASTM on revising the standard to: (1) strengthen its safety

provisions addressing hazards, and (2) form the basis of a federal standard intended to reduce hazards associated with stationary activity centers.

Activities Staff attended and participated in the F15.17 subcommittee meeting held on October 18, 2018. During the meeting, staff provided a review of the strap integrity activity and recommendations for the standard to address incidents associated with strap failures due to fraying. CPSC-provided incident data were also reviewed. During the meeting, a new task group was formed to investigate similarities between stationary activity centers and infant floor seats. Staff will participate in the new task group.

Staff also attended the strap integrity task group meeting held on December 5, 2018. The task group discussed an option to perform a life cycle test (25 lbs., 120,000 cycles) or to include a redundant strap that would encapsulate the entire system with a separate anchoring point.

Next Action Staff will attend and participate in the next subcommittee meeting, scheduled for June 2019. Staff will also be preparing a final rule briefing package in the second half of FY 2019.

Swimming Pools/Spas Drain Entrapment

Staff Contact Sharpless, Perry

Voluntary Standard(s) *American National Standard for Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs (ANSI/APSP 16-2017).*

Mandatory Standard(s) 16 CFR part 1450, *Virginia Graeme Baker Pool and Spa Safety Act*

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with 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 During the reporting period, staff was in the process of providing recommendations to the Commission about updating the referenced version of the standard in 16 CFR part 1450.

Next Action Staff will provide a briefing package to the Commission about updating the referenced standard in the regulation.

Swimming Pools/Spas Safety Vacuum Relief System

Staff Contact Sharpless, Perry

Voluntary Standard(s) *Standard for Safety Vacuum Release Systems, Automatic Pump Shut-Off Systems, and Shut-Off Systems, and Vacuum Limiting Systems for Swimming Pools, Spas, Wading Pools, Hot Tubs, and Catch Pools - APSP 17 (proposed standard, not yet approved).*

Mandatory Standard(s) 16 CFR part 1450, *Virginia Graeme Baker Pool and Spa Safety Act*

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with APSP on revising the standards to strengthen safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with safety vacuum release systems (SVRS) for swimming pools, spas, wading pools, and hot tubs.

Activities Staff had no activity relating to the safety vacuum release system standards development for the first half of FY 2019.

Next Action Staff will continue working with the committee toward the development of a draft revised standard to ballot.

Table Saws (formerly Power Equipment)

Staff Contact Paul, Caroleene

Voluntary Standard(s) *Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 2-1: Particular Requirements for Transportable Table Saws (ANSI/UL 62841-3-1)*

Mandatory Standard(s) *NPR Safety Standard Addressing Blade-Contact Injuries on Table Saws (82 FR 22190 (May 12, 2017))*

Standard(s) Update No standards associated with this product were updated during the reporting period.

<i>Purpose</i>	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with blade-contact injuries from table saws.
<i>Activities</i>	In January 2019, UL issued a proposal for preliminary review and comments. The proposal contained additional wording to clarify instruction requirements to address workpiece feed and jamming. Staff provided comments in support of the additional wording changes. The proposal did not reach consensus and no further action will be taken on the proposal. Staff contacted UL staff regarding table saws on the market that list compliance to UL 987 but have a single hood blade guard design. UL agreed to discuss blade guard design at a later date. UL also informed CPSC staff that UL 987 will be revised around August 2019 to remove all table saw requirements; after which time, all table saws will be covered under UL 62841-3-1.
<i>Next Action</i>	Staff will discuss blade guard designs and interpretation of requirements in UL 987 and UL 62841-3-1 to determine compliance with the standard. Staff will also continue to provide technical assistance to UL toward future revisions of the standard.

Tents

<i>Staff Contact</i>	Tenney, Allyson
<i>Voluntary Standard(s)</i>	ASTM (Under development, not yet published)
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on the development of a standard addressing hazards associated with tent flammability.
<i>Activities</i>	Staff attended and participated in the ASTM tent flammability task group meeting held on November 29, 2018. Attendees discussed the status of available background and data on tents and related products. The group will review data from the USA and Canada as well as data from other countries, as it becomes available. Attendees also reviewed possible product definitions and scope. The group reviewed and discussed some proposed provisions and requirements that might be considered for an initial draft method.

On March 25, 2019, staff participated in the ASTM tent flammability task group meeting and discussed definitions and scope.

Next Action Staff will participate in the next subcommittee meeting, expected to be in June 2019.

Toddler Beds

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Toddler Beds (ASTM F1821-18)*

Mandatory Standard(s) 16 CFR part 1217, *Safety Standard for Toddler Beds*

Standard(s) Update ASTM F1821-18 *Standard Consumer Safety Specification for Toddler Beds* was approved and published in December 2018. This revision includes an updated definition of a corner post.

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 On October 15, 2018, staff participated in the ASTM subcommittee meeting and discussed clarification/revision of the wording for mattress support and side rail attachment. The clarification is meant to explain that the testing is not for quality control, and therefore, every corner attachment point doesn't have to be tested. The testing is intended to cover any/all different types of attachments. This clarification was sent out to ballot on October 30, 2018, and the revision received two negative votes; those negatives are unresolved as of the end of the reporting period. Additionally, during the October 15 subcommittee meeting, a new task group was formed to look into possibly changing the scope of the standard to include mini cribs that convert to toddler beds.

On February 14, 2019, staff attended and participated in the mini crib task group meeting. The purpose of the meeting was to discuss how mini cribs that convert to toddler beds should be handled since they don't fall within the scope of toddler beds because they don't use full-size crib mattresses. After much discussion, the task group decided to monitor these products for incidents, before proposing any changes to the scope of the standard.

Next Action Staff will continue to provide technical assistance to the subcommittee and participate in the next subcommittee meeting, scheduled for May 2019.

Toys

Staff Contact Mordecai, Ben

Voluntary Standard(s) *Standard Consumer Safety Specification for Toy Safety (ASTM F963-17)*

Mandatory Standard(s) 16 CFR part 1250, *Safety Standard for Toys*

Standard(s) Update No standards associated with this product were updated during the reporting period.

Purpose To work with ASTM on revising the 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 Staff attended and participated in the ASTM F15.22 subcommittee meeting on toy safety held on October 29, 2018. During the meeting, the subcommittee reviewed ballot items that were ready to be issued for acoustics, phthalates and expanding materials.

On November 12, 2018, ASTM issued a ballot with four items pertaining to the toy standard: (1) acoustics section revision, (2) expanding materials section revision, (3) tolerance correction on a Figure, and (4) phthalates section revision. All four items received negative votes. Following the ballot, the acoustics task group worked on the ballot item, taking the negative votes into consideration. In March 2019, staff provided input to the acoustics task group.

On March 7, 2019, the Office of General Counsel sent a letter to The Toy Association, Inc., in response to the phthalates ballot and recent discussions between staff and the subcommittee leadership.

Next Action Staff will attend and participate in the next ASTM subcommittee meeting regarding the initiative to align United States and Canadian toy standards. This meeting is scheduled for April 2019.

Upholstered Furniture

Staff Contact Lock, Andrew

Voluntary Standard(s) *Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture (ASTM E1353-16)*

Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture (NFPA 260 – 2019 Edition)

Mandatory Standard(s)

N/A

Standard(s) Update

NFPA 260 -2019 Edition of *Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture*, was revised and includes substantial revisions to the standard cover fabric and the foam substrate cited in Chapter 4 (Test Apparatus). Chapter 6 (Test Procedures) and Annex A (Explanatory Material) also contained revisions.

Purpose

To work with ASTM on revising their standard to strengthen its safety provisions addressing hazards associated with fires involving upholstered furniture.

Activities

On November 20, 2018, staff attended and presented at the AHFA Regulatory Summit. Staff presented information regarding fire loss statistics and provided an update on the upholstered furniture flammability project at CPSC.

On December 5, 2018, CPSC staff attended the ASTM E05 committee meetings on fire testing, including meetings associated with the test methods on upholstered furniture. The attendees discussed the ongoing round robin testing to evaluate foam thickness in smoldering tests.

On March 6, 2019, CPSC staff participated in a teleconference with the BIFMA flammability subcommittee meeting. A number of issues were discussed relating to the flammability of furniture items. Some of the key issues discussed included the repeal of California's Technical Bulletin (TB) 133, activity in ASTM and NFPA voluntary standards including round robin testing in ASTM and changes to NFPA 260. The current status of the SRM 1196 cigarette was also discussed, including that California is considering adopting the CPSC guidance provided for 16 CFR part 1632 for California's TB 117.

Next Action

CPSC staff will participate in the next ASTM E05 Committee meeting, scheduled for June 2019. A Tech-to-Tech meeting is being planned for summer 2019. Staff plans to attend and participate.

Washing Machines

Staff Contact Kim, Yeon

Voluntary Standard(s)

Electric Clothes Washing Machines and Extractors (UL 2157)

<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with unbalanced load condition of top-loading washing machines.
<i>Activities</i>	Staff is continuing its work with the UL working group to develop repeatable and reproducible testing with different washer configurations.
<i>Next Action</i>	Staff intends to meet visit UL to review their testing methods in May 2019.

Window Coverings

<i>Staff Contact</i>	Balci-Sinha, Rana
<i>Voluntary Standard(s)</i>	<i>Standard for Safety of Corded Window Covering Products (ANSI/WCMA A100.1-2018)</i>
<i>Mandatory Standard(s)</i>	ANPR published in January 2015 (80 FR 2327, January 16, 2015).
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with WCMA on revising the standard to strengthen its safety provisions addressing hazards associated with window covering cords.
<i>Activities</i>	On March 12, 2019 staff attended and participated in a WCMA steering committee meeting. The purpose of the meeting was to gather feedback on the new requirements that went into effect and to discuss potential proposals for the standard, which will open in mid-June 2019. During the meeting, the attendees agreed on the need for more education for online sellers on the difference between stock and custom products, such as a guidance document for online sellers. Additionally, staff provided ideas for the next revision and for the committee to consider, including: (1) segmenting custom products by size and/or type to meet stock product requirements, (2) considering cord retractors for custom products as an option (which is not allowed for stock products); (3) investigating complete inoperability of the product if tension device is not installed (current requirement

is partial inoperability), and (4) considering cordless as default operating system for custom orders.

Next Action

Staff will attend and participate in upcoming committee meetings as they are scheduled.