



**UNITED STATES
CONSUMER PRODUCT SAFETY COMMISSION
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approved and signed.

Memorandum

Date: May 17, 2018

TO: The Commission
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THROUGH: Patricia M. Hanz, General Counsel
Patricia H. Adkins, Executive Director
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and Reduction

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

SUBJECT: Voluntary Standards Activities FY 2018 Mid-Year Report

Attached is U.S. Consumer Product Safety Commission staff's Voluntary Standards Activities FY 2017 Annual Report (October 1, 2017–March 31, 2018), which is forwarded for your information. If you have any question, please contact Patricia Edwards at: 301-987-2224, or at: pedwards@cpsc.gov.

VOLUNTARY STANDARDS TRACKING ACTIVITY REPORT



CPSC STAFF VOLUNTARY STANDARDS ACTIVITIES

***FY 2018 MID-YEAR REPORT
(October 1, 2017– March 31, 2018)***

**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, 2017–March 31, 2018

SUMMARY

This document is the current Voluntary Standards Tracking Activity Report (VSTAR), which shows, among other things, product or product areas associated with voluntary standards work, the name of the U.S. Consumer Product Safety Commission (CPSC) employee 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 associated with the voluntary standard. The VSTAR report is issued bi-annually in the form of: (1) a Mid-Year Report, covering the period from October 1 through March 31, and (2) an Annual Report of the CPSC fiscal year, which covers the period from October 1 to September 30. This document is the FY 2018 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 2018 CPSC Operating Plan, as modified during midyear, outlines 77 different products for which staff was actively involved in the development of associated voluntary standards during the fiscal year. There are 34 CPSC employees serving as designated representatives for the standards work covering the 77 products outlined in this report. This Mid-Year Report describes CPSC staff's activity in providing technical support and the results (when applicable) of the activity, during the first half of the fiscal year. Other information, such as the standard(s) designation, associated mandatory standard (if applicable), contact person, purpose, next action, is also included for all 77 products covered in this report.

UPDATED STANDARDS

Sixteen new, revised, or reaffirmed¹ voluntary safety standards covered in the FY 2018 Mid-Year VSTAR report were approved and published during the period October 1, 2017 to March 31, 2018, as outlined in Table 1 below.

¹ Re-approval of the existing standard without any changes.

**Table 1: New, Revised or Reaffirmed Voluntary Standards Approved
October 1, 2017–March 31, 2018**

SDO	Standard	Product	Publication Date (Year/Month)
ASTM	F2417-17	Candles	17-Oct
ASTM	F2388-18*	Changing Table and Products	18-Mar
ASTM	F2613-17a	Children's Chairs and Stools	17-Oct
ASTM	F2057-17	Clothing Storage Units	17-Oct
UL	2158	Clothes Dryers	17-Dec
ASTM	F404-18*	High Chairs	18-Mar
ASTM	F1292-17a	Impact Attenuation of Surface Materials	18-Jan
ASTM	F2670-18	Infant Bath Tubs	18-Mar
ASTM	F2374-17	Inflatable Amusement Devices	18-Feb
ASTM	F406-17	Non-Full-Size Cribs and Play Yards	18-Jan
ASTM	F2517-17	Portable Fuel Containers (Child Resistance)	17-Nov
UL	2201	Portable Generators	18-Jan
PGMA	G300-2018	Portable Generators	18-Mar
ASTM	D8142-17	Spray Polyurethane Foam	17-Oct
ASTM	F2012-18	Stationary Activity Centers	18-Mar
WCMA	A100.1-2018	Window Coverings	18-Jan

*Standard was revised twice in the reporting period

VOLUNTARY STANDARDS AND THE CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 (CPSIA)

During the reporting period, CPSC staff's involvement continued on voluntary standards activities associated with implementing the Consumer Product Safety Improvement Act of 2008 (CPSIA) (Pub. L. No. 110-314).

CPSC staff worked with ASTM and its subcommittees during the reporting period to fulfill certain CPSIA requirements. The Danny Keysar Child Product Safety Notification Act, 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.

A “durable infant or toddler product” is defined in the CPSIA as “a durable product intended for use, or that may be reasonably expected to be used, by children under the age of 5 years and includes:

full-size and non-full-size cribs; toddler beds; high chairs, booster chairs, and hook-on chairs; bath seats; gates and other enclosures for confining a child; play yards; stationary activity centers; infant carriers; strollers; walkers; swings; and bassinets and cradles.” Since the CPSIA’s inception, the Commission has added eight additional categories of products to the list of durable infant or toddler products: children’s folding chairs; changing tables; infant bouncers; infant bathtubs; bed rails; infant slings; crib bumper pads; and crib mattresses/supplemental mattresses.

ASTM subcommittees develop and maintain voluntary safety standards for durable infant or toddler products and other products. These subcommittees generally are comprised of consumer groups, juvenile product manufacturers, independent child product engineers and experts, and they may also include other interested stakeholders. Selected subcommittees, with input from CPSC staff, develop revised voluntary safety standards. Cooperative activities among CPSC staff and the ASTM voluntary standards subcommittees include evaluating death and injury data, hazard patterns, and recent recalls to identify gaps or potential safety hazards not covered in existing ASTM safety standards. These activities also include developing new testing protocols and validating testing methods.

Before issuing a durable infant or toddler product safety standard, the Commission, in consultation with representatives of consumer groups, juvenile product manufacturers, and independent child product engineers and experts, is required to examine and assess the effectiveness of any voluntary consumer product safety standard for the relevant durable infant or toddler product. All Section 104 rulemaking goes through a notice of proposed rulemaking (NPR) stage, which includes seeking public comment, followed by issuance of a final rule. After the Commission promulgates a safety standard that references an ASTM voluntary standard, ASTM is required to notify the Commission if the referenced voluntary standard is revised. Staff evaluates the revised ASTM standard and assesses whether the revision improves the safety of the product. Unless the Commission determines that the revision does not improve the safety of the product, the revision becomes the new CPSC mandatory standard.

During the reporting period, the Commission approved a final rule under Section 104 of the CPSIA for children’s folding chairs and stools. In addition, ASTM notified CPSC staff during the reporting period that the voluntary standard, ASTM F406, *Standard Safety Specification for Non-Full-Size Cribs and Play Yards*, was revised and that “the 2017 revisions made to this standard are related only to the sections covering non-full-size baby cribs and are not related to the requirements for play yards currently incorporated as a mandatory consumer product safety standard in 16 CFR part 1221.” At the close of the reporting period, staff was preparing a briefing package to the Commission regarding the revision of the non-full-size crib mandatory standard, 16 CFR part 1220, to reference ASTM F406-17.

Section 106 of the CPSIA requires that the voluntary standard ASTM F963-07 be considered a consumer product safety standard for toys. The statute also requires ASTM to notify the Commission when a revision to F963 is proposed. Revisions to ASTM F963 will then become the new consumer safety product standard for toys, issued by the Commission, effective 180 days after

notification, unless, within 90 days after receiving that notice, the Commission notifies ASTM that it has determined that the proposed revision does not improve the safety of the toys.

In late FY 2017, ASTM notified the Commission that a revision of the toy standard, ASTM F963-17, had been published. On November 30, 2017, staff notified ASTM that the Commission agreed to ASTM F963-17, except for the new text in Section 8.20.1.5 (5), which exempted push/pull toys from meeting certain sound requirements. The Commission determined that the added language did not improve the safety of toys.

VOTING AND LEADERSHIP ROLES ON VOLUNTARY STANDARDS

In accordance with the Commission's vote on the 2016 revision of 16 C.F.R. part 1031, "*Commission Participation and Commission Employee Involvement in Voluntary Standards Activities*," staff and the Executive Director's office submitted a report to the Commission in November 2017, outlining staff's assessment of the activities associated with voting and leadership positions on voluntary standards. As the Commission directed, the report summarized staff's views on the value of any voting and leadership activity occurring within the 12-month period covered by the report. The report described the resources expended for the voting and leadership activities during the same period and included any recommendations staff had regarding voting or leadership activities in light of experience. In accordance with the Commission's direction, information about staff voting and leadership activities is also now included in the VSTAR report. Below is an excerpt from the report outlining staff's voting and leadership roles for the period September 13, 2016 through September 30, 2017:

On September 13, 2016, Tim Smith of the CPSC's Human Factors Division of the Engineering Sciences Directorate cast his vote on an ASTM voluntary standard for high chairs, after receiving approval from the Office of the Executive Director. Since then, and through September 30, 2017, staff has voted on five other voluntary standards ballots. Scott Ayers voted on an ASTM ballot for gasoline containers; Janet Buyer voted on two ballots regarding portable generators; Hope Nesteruk voted on an ATV ballot; and Suad Wanna-Nakamura voted on a bouncer seat standard. In addition, two staff members are currently serving in leadership positions for ASTM standards. Ian Hall serves as the task group chair for headgear sensors, and Scott Ayers serves as task group chair for the development of flame-mitigation devices for flammable liquid containers.

New approvals for leadership and voting activity for the first half of FY 2018 are outlined in Table 2 below.

Table 2: Summary of Staff Voting and Leadership Activity on Voluntary Standards from October 2017 through March 2018

Staff	Request	Standard	Product	Approval Date
Hope Nesteruk	Leadership	ASTM F406	Play Yard Mattresses	1/18/2018
Arthur Lee	Leadership	UL 507	Electric Fans	3/19/2018
Hope Nesteruk	Voting	ASTM 2907	Infant Sling Carriers	3/28/2018

STANDARD DEVELOPMENT ORGANIZATION ABBREVIATIONS

The list below contains abbreviations for standard development organizations working with staff to develop standards covered by this VSTAR report.

ACBMA	American Circuit Breaker Manufacturers Association
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
CAN	Health Canada Regulation
CANENA	Council for Harmonization of Electrotechnical Standards of the Nations in the Americas
CSA	Canadian Standards Association
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 Industry
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 – Standard Technical Panel
WCMA	Window Covering Manufacturers Association

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CPSC Staff Voluntary Standards Activities

FY 2018 Mid-Year Report

(October 1, 2017–March 31, 2018)

Adult Portable Bed Rails

<i>Staff Contact</i>	Taylor, Michael
<i>Voluntary Standard(s)</i>	<i>Standard Specification for Adult Portable Bed Rails and Related Products (ASTM F3186-17)</i>
<i>Mandatory Standard(s)</i>	13-1 <i>Petition on Adult Portable Bedrails</i> docketed in June 2013.
<i>Purpose</i>	To work with ASTM to develop a standard to address hazards associated with adult portable bed rails.
<i>Activities</i>	There was no activity in the first half of FY 2018 on the portable bed rails voluntary standard.
<i>Next Action</i>	Staff will review and monitor the standard and the related incidents to ensure adequacy of the standard.

All-Terrain Vehicles (ATVs)

<i>Staff Contact</i>	Paul, Caroleene
<i>Voluntary Standard(s)</i>	<i>Four Wheel All-Terrain Vehicles (ANSI/SVIA 1-2017)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1420, <i>Standard for All-Terrain Vehicles</i>
<i>Purpose</i>	To work with SVIA 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 ATVs.
<i>Activities</i>	CPSC staff met with various manufacturers and interested parties on October 17, 2017, to discuss autonomous dynamic testing of ATVs. During the meeting, SEA,

a CPSC contractor, presented an overview of testing they performed and demonstrated autonomous test capabilities.

On December 6, 2017, staff provided SVIA with the last 10 years of fatal ATV-related IDI summaries for discussion at the next technical meeting (to be convened after autonomous test data conducted by SEA is published).

Test data were published in the following reports on the CPSC website:

- “Effects on Vehicle Characteristics of Two Persons Riding ATVs,” posted on October 5, 2018;
- “Effects on ATV Vehicle Characteristics of Rider Active Weight Shift,” posted on February 5, 2018;
- “Vehicle Characteristics Measurements of ATVs on Groomed Dirt,” posted on February 23, 2018.

Also in February 2018, staff submitted the final rule briefing package amending 16 CFR part 1420 to incorporate by reference the most recent version of the voluntary standard ANSI/SVIA 1-2017. The Commission approved the final rule and it was published on February 27, 2018.

Next Action

Staff will publish the report, “ATV Attribute Modification Study: Results of Baseline and Modified Vehicle Testing.” In addition, staff intends to meet with SVIA to discuss: (1) test data from all published reports on ATV testing, and (2) fatal incident data.

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*

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 the subcommittee meeting held on October 25, 2017. During this meeting, the “low to the ground bassinets” task group reported. Stability, scope, and other issues were discussed. The baby boxes task group discussed lids, and the subcommittee felt including a

lid with a strong warning was more practical than no lid, considering socio-economic conditions for many people using the boxes. The baby box task group will continue to work with a goal to combine ballot items with “low to the ground” bassinets. The “low to the ground” bassinets task group also met via teleconference on January 3, 2018. The stability requirement and scope of the standard were discussed. On March 26, 2018, the baby box task group met via teleconference and reviewed carry handle integrity/humidity testing data, mold and cleanliness after release of bodily fluids, using the product with a lid and warnings.

Next Action Staff will participate in upcoming task group meetings and at the next ASTM subcommittee meeting in May 2018.

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

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 is currently analyzing incident data regarding adult bath tubs and intends to share the analysis with ASTM during FY 2018.

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

Batteries, Fire (High-Energy Density)

Staff Contact Lee, Doug

Voluntary Standard(s) *Standard for Safety for Products that Incorporate Button or Coin Cell Batteries Using Lithium Technologies*, (UL 4200A);
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 exist for batteries exclusively.

Purpose

To work with the various standard developers on revising battery and battery charger 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 and participated in the ANSI/NEMA C18 Battery meetings held on October 9-10, 2017. Staff provided an overview of the CPSC's amendment to the FY 2018 Operating Plan to look at lithium-ion battery hazards and discussed drafting recommended practices for lithium-ion battery products.

Staff attended a CTIA/IEEE battery life working group meeting on October 17, 2018. The revision of IEEE 1625 and 1725 was the main topic of discussion. During the meeting, attendees presented topics they think need to be reviewed or updated in the standards.

At the PRBA annual meeting, held on December 14, 2017, staff provided an overview of CPSC involvement in battery and electrical voluntary standards, with a focus on lithium battery safety.

Staff attended an ANSI C18 Battery meeting on February 14, 2018. During the meeting, staff discussed coin cell packaging and drafting recommended practices for lithium-ion battery products.

UL met with staff on March 12, 2018, to discuss UL's research on batteries and battery management systems. Staff provided updates regarding battery work and other non-battery-related projects of interest to UL.

Staff hosted a roundtable discussion on Mitigating Risks with Battery Powered Consumer Products at the Battery Safety 2018/Florida Battery Seminar on March

27-29, 2018. Standards improvements and manufacturer identification and tracking were discussed as possible ways to improve safety.

Next Action Staff will attend the CTIA/IEEE working group meeting scheduled for April 24 - 25, 2018. 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 Lee, Doug

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 exist for batteries exclusively.

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

Activities Staff attended and participated in the ANSI/NEMA C18 Battery meetings held on Oct 9-10, 2017. During the meetings, coin cell research by Battery Association of Japan (BAJ), members validated consistency in test methods that could be used to confirm technology improvements. BAJ members also proposed testing method for packaging as an alternative to PPPA packaging requirement and the present exposure to children testing. On February 14, 2018, staff participated in another ANSI C18 Battery meeting. During the meeting, staff discussed coin cell packaging, and BAJ proposed package testing.

Next Action Staff will continue to participate in ANSI/NEMA and UL meetings to draft and harmonize requirements to eliminate or reduce ingestion and chemical burn hazards associated with button/coin cell batteries.

Bed Rails (Children's)

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Portable Bed Rails (ASTM F2085-12)*

<i>Mandatory Standard(s)</i>	16 CFR part 1224, <i>Safety Standard for Portable Bed Rails</i>
<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>	There was no activity in the first half of FY2018 on the portable bed rails voluntary standard.
<i>Next Action</i>	Staff will review incident data and participate in the next ASTM subcommittee meeting, when it is scheduled.

Bedside Sleepers

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Bedside Sleepers</i> (ASTM F2906-13)
<i>Mandatory Standard(s)</i>	16 CFR part 1222, <i>Safety Standard for Bedside Sleepers</i>
<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 bedside sleepers.
<i>Activities</i>	There was no activity in the first half of FY 2018 on the bedside sleeper voluntary standard.
<i>Next Action</i>	Staff will continue to review and analyze incident data annually and participate in the next ASTM subcommittee meeting when it is scheduled.

Booster Seats

<i>Staff Contact</i>	Kish, Celestine
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Booster Seats</i> (ASTM F2640-17 ^{e1})
<i>Mandatory Standard(s)</i>	NPR, <i>Safety Standard for Booster Seats</i> (82 FR 22925 (May 19, 2017))

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 booster seats.
Activities	<p>Staff attended and participated in two subcommittee meetings and three task group meetings during the reporting period. During the first subcommittee meeting, held October 23, 2017, the subcommittee chair discussed the results of two balloted items: measuring the booster seat, and adding requirements for booster seats that attach to the top of adult chair seat backs. Both ballots received negative votes and were sent back to the task groups to resolve. The task group met on November 6 and 16, 2017, and again on December 6, 2017, and developed new ballot items. During the January 23, 2018 subcommittee meeting, the subcommittee chair presented the three new ballots:</p> <ol style="list-style-type: none"> 1) For booster seats that have upright seatbacks only (<i>i.e.</i>, no seatback recline feature), add warning in instructions that states: “Use this product only for children who can sit up unassisted.” 2) In Section 7.10.1.1 – clarify the test procedure by adding the statement: “in manufacturer’s installation configuration.” 3) Add performance and testing requirements for booster seats that attach to the adult top chair backrest. <p>The ballots were issued on February 14, 2018, and all items passed, some with suggested comments. The comments will be reviewed and addressed during the next subcommittee meeting in May 2018. The revised standard is anticipated to be approved and published in spring 2018.</p>
Next Action	Staff will attend the May 2018 ASTM subcommittee meeting on booster seats. In addition, staff will continue to develop the final rule briefing package in FY 2018.

Candles and Candle Accessories

Staff Contact	Ayers, Scott
Voluntary Standard(s)	<p><i>Standard Test Method for Collection and Analysis of Visible Emissions from Candles as They Burn</i> (ASTM F2326-04(2015))</p> <p><i>Standard Specification for Candle Fire Safety Labeling</i> (ASTM F2058-07(2015))</p> <p><i>Standard Specification for Fire Safety for Candles</i> (ASTM F2417-16a)</p> <p><i>Standard Specification for Fire Safety for Candle Accessories</i> (ASTM F2601-17)</p> <p><i>Standard Specification for Annealed Soda-Lime-Silicate Glass Containers That Are Produced for Use as Candle Containers</i> (ASTM F2179-14)</p> <p><i>Standard Guide for Terminology Related to Candles and Associated Accessory Items</i> (ASTM F1972-13)</p>
Mandatory Standard(s)	N/A

Purpose	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with candles and candle accessories.
Activities	<p>The revised standard, ASTM F2417-17, <i>Standard Specification for Fire Safety for Candles</i>, was approved and published in October 2017.</p> <p>Staff attended several ASTM candle-related task group meetings during the reporting period. One task group teleconference, held December 1, 2017, pertained to the rewriting of the candle accessories standard (F2601-16a). The other nine task group meetings in which staff participated (held between October 24, 2017 and March 27, 2018) dealt with the review and analysis of incident data.</p> <p>On February 14, 2018, ASTM issued a ballot item containing the rewrite of F2601. The ballot item passed with no negatives and only a few comments.</p>
Next Action	Staff will attend and participate in (1) the next ASTM subcommittee meeting scheduled in April 2018, and (2) the task group teleconference scheduled in May 2018.

Carbon Monoxide (CO) Alarms

Staff Contact	Brookman, Matt
Voluntary Standard(s)	<i>Single and Multiple Station Carbon Monoxide Alarms</i> (UL 2034)
Mandatory Standard(s)	N/A
Purpose	To work with UL on revising the standard to address the hazards associated with carbon monoxide.
Activities	<p>On March 20, 2018, a notice was published in the <i>Federal Register</i> to begin a 60-day comment period on a CPSC-sponsored survey to assess use of smoke and/or carbon monoxide alarms. The contractor (Eureka Facts) is to survey 1,185 homes with data from the initial 50 homes to be evaluated, to identify any issues with the survey. Interviews will be conducted in the consumers' homes and by phone.</p> <p>There was no staff activity with regard to the voluntary standard on carbon monoxide alarms, UL 2034.</p>
Next Action	Staff intends to execute the national survey with the contractor and begin collecting information regarding the use and perception of smoke and CO alarms.

Carriages and Strollers

Staff Contact	Talcott, Kristen
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Carriages and Strollers</i> (ASTM F833-15)
Mandatory Standard(s)	16 CFR part 1227, <i>Safety Standard for Carriages and Strollers</i>
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with carriages and strollers.
Activities	<p>Staff attended and participated in the October 23, 2017 subcommittee meeting on strollers. The subcommittee chair reviewed the task group activity regarding tray/grab bar. CPSC staff shared incident data on front wheels of jogging strollers and requested that a task group be established to review and revise the performance requirements. On November 28, 2017, ASTM issued a ballot regarding a change to the static load test and how the test weight is described. The ballot received two negative votes plus several comments.</p> <p>Staff participated in the first meeting of the jogger wheel task group held January 10, 2018. Staff also attended and participated in several task group meetings pertaining to the tray/grab bar, as well as a meeting concerning the accessibility of the parking brake to stroller occupants. A ballot was issued on March 16, 2018, regarding a new requirement for tray/grab bar protective coverings. At the end of the reporting period, the results of the ballot were not yet known.</p>
Next Action	Staff will participate in the next ASTM subcommittee meeting scheduled for May 2018.

Changing Tables

Staff Contact	Kumagai, Mark
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Baby Changing Tables for Domestic Use</i> (ASTM F2388-18)
Mandatory Standard(s)	<i>NPR Safety Standard for Baby Changing Products</i> (81 FR 66881 (September 29, 2016))
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 changing tables.

Activities

There were two revisions to the ASTM standard published during the reporting period. ASTM F2388-17a was published in November 2017, and ASTM F2388-18 was published in March 2018. Staff worked on various changes to the standard that were included in these two revisions. Changes to the terminology section, instructional literature, and improvements on some performance requirements were included in these two revisions.

Staff attended and participated in two subcommittee meetings during the reporting period; one held on October 25, 2017, and the other on January 23, 2018. Ballot items and balloting results were the focus of the discussion at both meetings.

The subcommittee had one item of new business related to add-on changing tables that sit on furniture (namely, dressers), but do not physically attach to the furniture. Because of the test methods, it was not clear how to test this product or whether it would (or should) pass the standard. The test lab that brought up the issue will review the new standard and report back to provide clarity.

Next Action

Staff will participate in the next ASTM subcommittee meeting scheduled for May 2018. In addition, staff continues to develop a final rule briefing package for changing products in FY 2018.

Child Frame 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*

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 participated in the ASTM subcommittee meeting held on October 24, 2017. During the meeting, the subcommittee reviewed incident data and noted that there were still several incidents with falls through leg opening. Staff confirmed that there was one incident not related to the 2017 recall.

Next Action

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

Children's Folding (Youth) 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*

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 children's folding chairs and stools.

Activities Staff submitted a final rule briefing package to the Commission on November 29, 2017, recommending a clean adoption of the voluntary standard, ASTM F2613-17a, but with a reduced scope to include only children's folding chairs and stools. In December 2017, the Commission approved the final rule, and it was published in the *Federal Register*. The rule will become effective on June 15, 2018.

The subcommittee met on October 23, 2017. Staff attended and participated in the meeting where the results of the September ballot to revise the stability test requirements were reviewed. The ballot passed with no comments or negative votes. During the meeting, the subcommittee discussed the children's plastic chairs standard (ASTM F1838) and how it relates to the folding chair standard. Staff also attended and participated in the January 23, 2018 subcommittee meeting. The subcommittee chair raised the issue of other children's chair standards (ASTM F1561 and F1838) and established a task group to look at all the standards to see if they can be combined or referenced. The subcommittee also discussed different interpretations for the scissoring, shearing, and pinching requirement and said that it may conflict with the locking/latching requirement. A task group was formed to address the issue.

On February 28, 2018, the task group on scissoring, shearing and pinching met via teleconference. Staff attended and participated in the meeting. This meeting was to understand the existing requirements for shearing, scissoring, and pinching and for hinge-line clearances in ASTM F2613, *Children's Chairs and Stools* standard. The task group came to a consensus on what the standard is requiring for testing. The task group will come up with recommendations for clarification of the test requirements so that test labs have a better understanding of the requirements and how to conduct the tests to ensure the requirements are met. Recommendations will be presented to the full subcommittee at the next ASTM meeting.

Next Action Staff will attend and participate in the next subcommittee meeting scheduled for May 2018.

Child-Resistant Packaging (CRP)

<i>Staff Contact</i>	Eilbert, Mark
<i>Voluntary Standard(s)</i>	<i>Standard Classification of Child-Resistant Packages ASTM D3475-17</i>
<i>Mandatory Standard(s)</i>	Poison Prevention Packaging Act of 1970 (PPPA)
<i>Purpose</i>	To work with ASTM on package design and development to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with child-resistant packaging.
<i>Activities</i>	Staff reviewed an ASTM ballot issued in October 2017 to revise D3475. The revisions included new requirements when adding or revising the classifications relating to CRP. The ballot item passed, but the revision is on hold, pending resolution of a new requirement dealing with bench-top equivalency testing or additional protocol testing per 16 CFR part 1700. The ASTM task group is looking into providing an addendum to D3475 to address these issues.
<i>Next Action</i>	Staff will participate in the next ASTM subcommittee meeting scheduled for April 2018.

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>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>	On October 27, 2017, UL issued a revision ballot to UL 2158, containing many new references to Canadian and IEC electrical standards. Staff reviewed the ballot and had no comments. The ballot received consensus. The 4 th edition UL 2158 is the harmonized CSA Group and UL Standard for Electric Clothes Dryers. The UL edition supersedes the previous edition published in 2014, which was published in December 2017; but the implementation date is undecided.

Next Action CPSC staff will continue to participate on the UL STP, and any related working group, to review and develop any proposals presented to the STP, as appropriate.

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*

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 There was no activity in the first half of FY 2018 on the commercial crib voluntary standard.

Next Action CPSC staff will review incident data and participate at the next subcommittee meeting, when scheduled.

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 (to be developed)

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 was active in the task groups on bumper airflow, attending three meetings during the reporting period, and bumper firmness, where staff attended two

meetings during the reporting period. Staff also attended and participated in the October 26, 2017 subcommittee meeting. During the subcommittee meeting, each of the three task groups - Airflow, Firmness, and Warnings - reported on their activities. The Airflow task group was considering use of the Intertek suffocation model in the standard, but Intertek was still considering the intellectual property issues surrounding this model. The Firmness task group recommended incorporating the firmness test from the Australian/New Zealand standard, AS/NZS 8811.1:2013, *Methods of Testing Infant Products: Part 1: Sleep Surfaces—Test for Firmness*, into the standard, and intended to see how the language of the firmness test can be modified to apply to bumpers and translated into ASTM language. The Warnings task group chair had prepared a draft ballot that would add a “conspicuous” definition to the standard and revise the warning requirements to be consistent with the Ad Hoc task group recommendations for warning format. CPSC staff gave one presentation on recommended revisions to the standard based on staff’s review of the standard and available incidents, and another presentation on preliminary airflow testing.

A subcommittee member asked for confirmation that the airflow and firmness requirements were “or” requirements (*i.e.*, bumpers had to meet one or the other, not both). Staff confirmed that this was staff’s interpretation of the Commission’s direction, but if a bumper that conforms to the face is still likely to pose a suffocation hazard even if it meets the airflow requirements, then it might be necessary for bumpers to meet both requirements.

During the last airflow task meeting, held on February 8, 2018, the task group discussed how to define “mesh,” given the Commission’s direction that crib bumpers should meet or exceed the airflow characteristics of mesh or mesh-like materials. Some task group members raised questions about the validity of such an airflow requirement because it is unclear how airflow relates to breathability per se, or how it relates to the specific incident data. The task group also discussed the Intertek test method, which task group members said: (1) suggests that current bumpers pose a low risk of suffocation, and (2) is a proprietary test method that cannot be incorporated into the ASTM voluntary standard. The task group chair concluded the meeting by stating that the data do not support an airflow requirement at this time, but that the task group will continue to think about this issue.

Next Action

Staff continues to develop an NPR briefing package in FY 2018, and staff will also continue to participate in ASTM task group and subcommittee meetings on infant bedding planned for May 2018.

Crib Mattresses (including Supplemental and Aftermarket Mattresses)

Staff Contact

Nesteruk, Hope

<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Performance Specification for Crib Mattresses (ASTM F2933-16)</i>
<i>Mandatory Standard(s)</i>	<i>Petition CP 15-2: Petition Requesting Ban on Supplemental Mattresses for Play Yards with Non-Rigid Sides</i>
<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 crib and supplemental mattresses.
<i>Activities</i>	<p>In FY 2017, the Commission voted to grant a petition and directed staff to initiate rulemaking under section 104 of the CPSIA to promulgate a mandatory consumer product safety standard that will address the risk of injury associated with the use of crib mattresses, including supplemental and aftermarket mattresses used in play yards and portable cribs.</p> <p>On October 26, 2017, staff attended and participated in the ASTM crib mattress subcommittee meeting. A previous ballot item defining “aftermarket mattresses” was reviewed during the meeting. CPSC staff provided, in a written comment, a request to remove the words “intended to replace,” and therefore, the ballot was withdrawn and was reissued in November 2017. The ballot received a couple of negatives due to a typographical error; all but one negative was withdrawn, and the other negative was found to be non-persuasive. Staff attended the January 23, 2018 subcommittee meeting where non-segmented mattresses were discussed. A new task group under the play yard subcommittee will look into those products and play yard mattress thickness issues. A new task group was formed to consider covering bassinet mattresses in this standard.</p>
<i>Next Action</i>	Staff will continue to serve in a leadership position with the ASTM task group and will participate in the non-full-size crib/play yard and crib mattress subcommittees. The next subcommittee meetings are scheduled for May 2018.

Electric Fans

<i>Staff Contact</i>	Lee, Arthur
<i>Voluntary Standard(s)</i>	<i>Standard for Electric Fans (UL 507)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Purpose</i>	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with electric fans.

<i>Activities</i>	On December 28, 2017, staff sent a letter to UL with a proposal to improve UL 507's thermal aging testing for fans or motors in unattended areas. UL requested that Arthur Lee serve as the task group chair to head up this proposal. Mr. Lee obtained approval to serve in a leadership position in March 2018.
<i>Next Action</i>	CPSC staff will continue to provide leadership and participate on the UL STP to review and develop the proposals presented to the STP.

Fireworks

<i>Staff Contact</i>	Valliere, Rodney
<i>Voluntary Standard(s)</i>	Various AFSL standards and APA 87-1
<i>Mandatory Standard(s)</i>	16 CFR § 1500.17, <i>Banned Hazardous Substances</i> and 16 CFR part 1507, <i>Firework Devices</i>
<i>Purpose</i>	To work with AFSL and APA on revising the standards to strengthen safety provisions addressing hazards associated with consumer fireworks.
<i>Activities</i>	Staff attended the APA Annual Conference from October 2-6, 2017, in San Diego, CA. At the conference, staff answered technical questions about the Fireworks NPR and current testing methods. Staff also attended the APA Winter Conference from February 5-9, 2018. There have been no changes made to the draft of APA 87-1 since the last meeting, and the updated standard is scheduled for release no earlier than September 2018.
<i>Next Action</i>	Staff will continue to attend and participate in AFSL and APA meetings, when scheduled. Staff also continues to develop a final rule briefing package in FY 2018.

Flame-Mitigation Devices (FMDs) on Disposable Fuel Containers

<i>Staff Contact</i>	Scott Ayers
<i>Voluntary Standard(s)</i>	None at this time
<i>Mandatory Standard(s)</i>	N/A

Purpose	To work with ASTM to develop a voluntary safety standard containing requirements for flame-mitigation devices (FMDs) for flammable liquid fuel containers used in open-flame consumer applications.
Activities	<p>In late FY 2017, an ASTM task group covering FMDs for disposable fuel containers was established under subcommittee ASTM F15.72, and Scott Ayers was approved to be the task group chairman.</p> <p>On October 25, 2017, staff led and participated in a task group teleconference where the draft standard was reviewed. The meeting focused on Sections 4 (requirements) and 5 (test methods) of the standard. The task group met again via teleconference on December 1, 2017, and January 17, 2018, where the draft standard review continued. The ASTM subcommittee F15.10 is working on similar requirements for gasoline containers. The expectation is that the FMD standard for gasoline containers will be balloted soon, and thus, any ballot for disposable fuel containers should wait until that ballot has been resolved.</p>
Next Action	Staff will continue to lead and participate in the ASTM task group.

Flammable Refrigerants

Staff Contact	Ayers, Scott
Voluntary Standard(s)	<p><i>Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers</i> (CANENA/UL 66335-2-24)</p> <p><i>Standard for Dehumidifiers</i> (UL 474 Edition 10)</p> <p><i>Standard for Room Air Conditioners</i> (UL 484 Edition 9)</p> <p><i>Safety Standard for Refrigeration Systems</i> (ANSI/ASHRAE 15)</p> <p><i>Designation and Safety Classification of Refrigerants</i> (ANSI/ASHRAE 34)</p>
Mandatory Standard(s)	N/A
Purpose	To work with CANENA, UL, and ASHRAE on revising the standard to strengthen its safety provisions addressing hazards associated with flammable refrigerants (also known/marketed as “natural refrigerants”) used in household refrigerators and freezers.
Activities	Staff participated in two UL task meetings during the reporting period (October 10, 2017, and March 28, 2018) regarding flammable refrigerants in room air conditioner units. There were no task group meetings associated with household refrigerators during the reporting period. During the March 28, 2018 meeting, the UL task group decided to disband in favor of work on other flammable refrigerant with AHRI, ASHRAE, AHAM and IEC.

Next Action Staff will continue participating in the ASHRAE standards committee investigating the general safety of flammable refrigerants and flammable refrigerant systems.

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*

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 and participated in the ASTM subcommittee meeting for full-size cribs on October 23, 2017. The subcommittee chair reviewed a request raised by CPSC staff after a test lab noted a potential interpretation that section 8.4 did not clearly indicate that warnings are required to be attached to the product. The subcommittee agreed to send this to ballot. In addition, a ballot item adding entrapment requirement for accessories (mainly changing tables) that attach to the crib rails and for the accessory to lock automatically was agreed to. ASTM issued a ballot on March 16, 2018, addressing the accessories issues (entrapment and auto-locking). Ballot results were not yet known at the end of the reporting period.

Next Action Staff will participate in the next subcommittee meeting scheduled for May 2018.

Furniture Tip-overs

Staff Contact Taylor, Michael

Voluntary Standard(s) *Standard Safety Specification for Clothing Storage Units (ASTM F2057-17)*
Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s) (ASTM F3096-14)

***Mandatory
Standard(s)***

ANPR published November 2017 (82 FR 56752, Nov. 30, 2017)

Purpose

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

Activities

On October 1, 2017, ASTM approved F2057-17, which revised the warning labels and associated labeling requirements.

In November 2017, the Commission approved the publication of an advance notice of proposed rulemaking (ANPR) to address clothing storage unit furniture tip over hazards. The ANPR published on November 30, 2017. In the notice, the Commission invited interested parties to submit existing voluntary standards or a statement of intent to modify or develop a voluntary standard that addresses the risk associated with furniture tip over.

Staff was very active in task group and subcommittee meetings during the reporting period. Staff participated in the subcommittee meeting held on November 9, 2017. Each task group reported an update on their work, but no ballot items recommendations were agreed to.

CPSC staff hosted a combined task group meeting for labeling, operational slide length, age/weight, testing and freestanding units on March 8, 2018. During the combined meeting, some balloting items pertaining to test fixture weight tolerances and test procedure clarifications were agreed to. Other issues were discussed, but there was no consensus on other potential ballot items. During the meeting, CPSC staff made a presentation on experimental design and will draft a design of experiments to submit to the task groups to explore various testing considerations.

Next Action

Staff will continue to participate in the task groups established by the subcommittee and will attend and participate in the next subcommittee meeting set for May 4, 2018. Staff will also continue to develop the NPR briefing package.

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

<i>Purpose</i>	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.
<i>Activities</i>	<p>In October 2017, CPSC staff attended the following meetings related to gas appliances:</p> <ul style="list-style-type: none"> • October 23, 2017 - CSA Technical Committee on Gas Appliances and Accessories, • October 24, 2017 – ANSI Z21/83, Technical Committee on the Performance and Installation of Gas Burning Appliances and Accessories, • October 25, 2017- ANSI/CSA Z21.47 Central Furnace Technical Subcommittee, <p>During the meetings, the working groups provided updates on the status of their activities, and others presented proposals and reports on related topics. During the CO sensor working group report to the ANSI Z21/83 Technical Committee, staff reiterated concerns regarding the 20-year life requirement that the group has imposed on sensors because:</p> <ul style="list-style-type: none"> • None of the other ANSI/CSA standards for gas appliances or their accessories specify device performance criterion in terms of years; • When asked by CPSC staff, no one was able to specify a test criterion that could establish a sensor life expectancy of 20-years; and
<i>Next Action</i>	CPSC staff plans to participate in the voluntary standards meetings of the Technical Committees for gas appliances and equipment (Z21/83) and the Technical Subcommittees for gas furnaces (Z21.47), gas boilers (Z21.13), and gas wall and floor furnaces (Z21.86), when scheduled.

Gas Grills

<i>Staff Contact</i>	Ayers, Scott
<i>Voluntary Standard(s)</i>	<i>Outdoor Cooking Gas Appliances</i> (ANSI Z21.58b-2018/CSA 1.6-2018)
<i>Mandatory Standard(s)</i>	N/A
<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 gas grills and other outdoor gas cooking appliances.
<i>Activities</i>	This voluntary standards activity was added to the FY 2018 Operations Plan during the midyear process. CSA revised the Outdoor Cooking Gas Appliance standard in FY 2017, and it was ANSI-approved in January 2018. Staff

attended and participated in two subcommittee teleconferences during the reporting period. The first teleconference was on January 19, 2018, and the subcommittee discussed a discrepancy in the standard dealing with the storage of lp-gas supply cylinders. The group reworded the requirement to identify explicitly when the operating cylinder is installed according to manufacturer's instructions, and noting that it applies to enclosures under the cooking areas. On January 31, 2018, a joint technical subcommittee meeting for ANSI standards on gas-fired illuminating appliances (Z21.42) outdoor cooking gas appliances (Z21.58), and outdoor decorative gas appliances (Z21.97) was held via teleconference. During this meeting, the proposed language dealing with supply cylinders was voted on to send out for review and comment. Other issues dealing with lids, doors, regulator definitions, and instructional literature were discussed.

Next Action Staff will attend and participate in the next subcommittee meeting, tentatively scheduled in May 2018.

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 F2517-15)*

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

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 A revision to ASTM F2517, *Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use*, was approved on October 1, 2017, and published in November 2017. On November 13, 2017, ASTM notified the Commission that it had revised the standard. On November 29, 2017, staff prepared a briefing memo recommending the Commission revise the reference in 16 CFR part 1460 to refer to F2517-17. In December 2017, the Commission approved the publication of a direct final rule to revise the reference.

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)

Mandatory Standard(s) N/A

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

Activities ASTM F852 has expired and needs to be renewed, but updates are necessary because requirements for diesel and kerosene containers will be rolled into this standard. Once a revised F852 is approved, F976, *Standard Specification for Portable Kerosene and Diesel Containers for Consumer Use*, will be cancelled. Additionally, the subcommittee has been developing a new standard for FMD requirements on gasoline containers. Two task groups were established, one for revising F852, and the other for writing the FMD standard. Staff is participating on both task groups. The task groups met regularly between October 2017 and March 2018. On March 16, 2018, ASTM issued a ballot item containing a reinstated and revised F852 standard. On March 6, 2018, staff attended and participated in a subcommittee teleconference regarding the draft FMD standard. During the teleconference, the subcommittee voted to send the draft FMD, with some revisions, to ASTM for ballot.

NFPA's Flammable and Combustible Liquids Code, NFPA 30 committee also met during the reporting period. Staff attended and participated in teleconferences on November 15, 2017, and met again on March 13 and 14, 2018. The NFPA 30 committee is also developing FMD requirements to be added to the Code.

Next Action Staff plans to attend future ASTM F15.10 task group and subcommittee meetings and NFPA 30 committee meetings and will continue to participate in the drafting of requirements for FMDs.

Gates and Enclosures

Staff Contact Nesteruk, Hope

<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures (ASTM F1004-16b)</i>
<i>Mandatory Standard(s)</i>	Under development in accordance with Section 104 of the CPSIA
<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 gates and enclosures.
<i>Activities</i>	<p>Staff attended and participated in a subcommittee meeting held on October 23, 2017. During the meeting, the chairman reported that there are three outstanding ballot items that have been resolved, but were being held by administrative negatives while awaiting a few other issues. These ballot items pertain to slat strength requirements, warning (ad hoc) changes, and a locking/latching requirement revision. Staff also participated by phone at the January 23, 2018 subcommittee meeting. The meeting discussed the completely bounded openings test and the pushout test. CPSC staff presented the results of our testing. In summary, staff tested eight gates and found that there was no significant difference between two testers following the standard as proposed, indicating between-tester reliability when using the same fixture. In addition, CPSC staff discussed further testing to examine installation force and the side forces exerted by the gate. Staff found that the side force was very sensitive to installation. Accordingly, staff recommended that gates include indicators when sufficient pressure is reached. In addition, staff discussed recommendations that have been raised at various points over the past 3 years – (1) that all gates should be able to withstand 30 lbs. of push-out force (rather than <i>just</i> “top of stairs” gates), and (2) if a gate requires wall cups to pass the test, the wall cups should be required (previous, this was discussed as testing with and without wall cups, staff’s most recent proposal is that the wall cups should be integral to the function of the gate and it should not function without them). There was much discussion in the subcommittee, both for and against the proposal. The subcommittee agreed to ballot the completely bounded openings requirement and the revised push-out test. This includes raising the push-out minimum force requirement to 30 pounds. The existing task group will take up the issue of indicators and required wall cups. On February 14, 2018, ASTM issued ballots for (1) the completely bounded openings requirement, (2) the push-out testing procedure, and (3) the push-out test requirement. All three items received multiple negative votes.</p>
<i>Next Action</i>	Staff will provide incident data to the ASTM subcommittee and intends to attend and participate at the next ASTM subcommittee meeting set for May 2018. Staff continues to develop an NPR briefing package in FY 2018.

Hand-Held Infant Carriers

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Performance Specification for Hand-Held Infant Carriers (ASTM F2050-16)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1225, <i>Safety Standard for Hand-Held Infant Carriers</i>
<i>Purpose</i>	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.
<i>Activities</i>	Staff attended and participated in the ASTM subcommittee meeting for handheld carriers on October 23, 2017. During the meeting, the chairman reported that the outstanding ballot to bring the standard in line with the federal regulation was held by administrative negatives while awaiting a few other potential changes to the standard. The shopping cart label task group reported that they had agreed to everything for the label, except the pictogram, which was still a work in progress. The carry handle task group is working on a proposal for testing strength of carry handles, which was reviewed and discussed by subcommittee. The task group will take the subcommittee's feedback and keep working. An ad hoc warning label proposal is being drafted to go out to ballot. A task group was established to review new incidents related to asphyxiation in harness straps in products that contain the new warning label.
<i>Next Action</i>	Staff will attend and participate in the next subcommittee meeting scheduled for May 2018.

High Chairs

<i>Staff Contact</i>	Marques, Stefanie
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for High Chairs (ASTM F404-18)</i>
<i>Mandatory Standard(s)</i>	NPR <i>Safety Standard for High Chairs</i> (80 FR 3353 November 9, 2015)
<i>Purpose</i>	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 23, 2017, subcommittee meeting where results from two recently balloted items were reviewed. The first item (adopting ad hoc language of the protective components section of the standard) passed with no negatives and one comment. The second item changed the warning label language from “exactly as stated” to “shall address,” and it also passed with no negatives and two comments. One of the comments was from CPSC staff, who recommended that ASTM still consider adding the line “Stay near and watch child during use” to the fall hazard warning label, and that the instructional literature section be revised to be more consistent with the ad hoc labeling recommendations. Staff’s comment was discussed but did not change the ballot.

The scope task group discussed an emerging high chair product -- reclining seat inserts for high chairs and reclining seat high chairs. The subcommittee chair raised concerns that there are sections of the high chair standard that would be difficult for these products to meet or be tested to, and he noted plans to have the task group look at what sections of the high chair standard for these products might need to be exempted.

On November 27, 2017, ASTM issued a ballot item to revise the instructional literature section of the high chair standard. It received two negatives that were later withdrawn.

In January 2018, staff attended a task group meeting pertaining to reclining high chairs. The task group looked at possible exemptions, but decided to hold off proposing anything until after a definition for “reclining high chairs” was developed.

The ASTM revised standard, ASTM F404-18, was approved on February 15, 2018, and published in March 2018. At the end of the reporting period, staff was putting the final preparations on the final rule briefing package for high chairs, which references ASTM F404-18.

Next Action

Staff continues to develop the final rule briefing package and in FY 2018. Staff will continue to participate in the next ASTM subcommittee meeting scheduled for May 2018.

Infant Bath Seats

Staff Contact

Kish, Celestine

Voluntary Standard(s)

Standard Consumer Safety Specification for Infant Bath Seats (ASTM F1967-13)

Mandatory Standard(s)

16 CFR part 1215, *Safety Standard for Infant Bath Seats*

<i>Purpose</i>	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.
<i>Activities</i>	During the October 24, 2017 subcommittee meeting, the subcommittee chairman explained that the standard is due for its 5-year renewal. He reviewed items on the Memory Sheet and determined that none of them are valid anymore and therefore are being deleted from the sheet. He discussed two issues that need to be addressed during the renewal process: (1) the soap solution required for testing is no longer available, and (2) the tub test fixture drawing is not accurate and needs to be fixed. He asked CPSC staff to take the lead on these two items. Staff agreed to provide information to task group lead. Subcommittee chair agreed to be task group lead. A testing laboratory representative will assist the task group on a suggestion for the soap solution. The subcommittee chair will also prepare the standard to reflect the Ad Hoc subcommittee's language recommendations. The task group met on January 9 and 18, 2018, to discuss the potential ballot items, specifically the soap solution and the tub test fixture drawing. During the January 18, 2017 meeting, the task group chair reviewed several other ballot items with the task group. These ballot items consisted of revisions for clarity and to help clean up the standard. On March 16, 2018, the clarity and clean-up ballot items (nine total) were issued. The soap solution and tub test fixture ballot items were not yet ready for ballot. The results of the ballot were not available at the end of the reporting period.
<i>Next Action</i>	Staff will attend the next ASTM subcommittee meeting, scheduled to be held in May 2018.

Infant Bath Tubs

<i>Staff Contact</i>	Kish, Celestine
<i>Voluntary Standard(s)</i>	<i>Consumer Safety Specification for Infant Bath Tubs</i> (ASTM F2670-18)
<i>Mandatory Standard(s)</i>	16 CFR part 1234, <i>Safety Standard for Infant Bath Tubs</i>
<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 tubs.
<i>Activities</i>	The subcommittee met on October 4 and on October 24, 2017. The October 4 meeting reviewed a negative to the FY 2017 ballot pertaining to revising the warning and instructional literature language. The subcommittee voted and found the negative non-persuasive because it related to Ad Hoc Language and that

should be addressed by the Ad Hoc subcommittee. During the October 24 meeting, the subcommittee chair presented a spreadsheet of all the balloted items (11 total) and the balloting results. Besides the warning and instructional literature ballot item, all other balloted items were approved. That ballot item was sent back out on November 28, 2017, to uphold the non-persuasive vote, and passed. In March 2018, the revised standard was approved and published.

Next Action Staff will provide incident data to ASTM and will participate in the next ASTM subcommittee meeting in May 2018.

Infant Bouncers

Staff Contact Wanna-Nakamura, Suad

Voluntary Standard(s) *Standard Consumer Safety Specification for Infant Bouncer Seats (ASTM F2167-17)*

Mandatory Standard(s) 16 CFR part 1229, *Safety Standard for Infant Bouncer Seats*

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

Activities Staff attended and participated in the ASTM bouncer subcommittee meeting held on October 23, 2017. There were no ballots to discuss so the task groups provided their reports. The first discussion dealt with the new CPSC's final rule, which adopted ASTM F2167-17 with two exceptions. The task group is going to develop a test requirement that replaces the test dummy with the seat back gauge so measurement is more consistent. There was a lot of discussion regarding the warning statement added in CPSC's standard – "even if baby falls asleep" to fall and suffocation warnings. The task groups will go forward and get a ballot out to try to beat the effective date of the CPSC standard.

New business discussion included a new product that raises the bouncer to almost high chair height. A task group was formed to look at this. The subcommittee also reviewed incident data supplied by staff. No new hazard patterns were identified.

On November 27, 2017, ASTM issued two new ballot items for infant bouncers. The first item was issued so that the voluntary standard would match the new mandatory standard. It received two negative votes. The second ballot item was a change to one of the warning requirements. It received one negative vote that was later withdrawn.

The subcommittee met again on January 23, 2018, and discussed the ballot results. One of the negative votes was withdrawn because it was editorial in nature. The subcommittee voted and found the second negative non-persuasive. The subcommittee discussed exempting from the requirements in the high chair standard bouncers that fit onto high chair frames. On March 16, 2018, ASTM issued another ballot item to uphold the subcommittee finding of the non-persuasive negative. At the end of the reporting period, the ballot results for that item were not known.

Next Action Staff will continue to provide technical assistance to the subcommittee, participate in task groups, and attend the next subcommittee meetings scheduled for May 2018.

Infant Inclined Sleep Products

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Infant Inclined Sleep Products (ASTM F3118-17a)*

Mandatory Standard(s) *NPR Standard Consumer Safety Specification for Infant Inclined Sleep Products (82 FR 16963 (April 7, 2017)).*

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 inclined sleep products.

Activities In October 2017, ASTM published the revision to the infant inclined sleep products standard, F3118-17a. It had been approved on September 1, 2017.

On October 25, 2017, staff attended and participated in an infant inclined sleep product subcommittee meeting. The subcommittee chair discussed the two recently balloted items. The first item discussed was the scope of the standard, and there were three negatives that were found to be persuasive. The ballot will go out again, removing the exclusion statement for products that have multiple features covered by different standards. The second item dealt with the discussion items in the definition of “intended and marketed for providing sleep.” The subcommittee chair decided to leave the statements as they are written, but will watch for it in the future.

The electrical task group met on January 11, 2018, to discuss adding requirements for the battery-related issues. During the January 23, 2018 subcommittee meeting, the proposed electrical requirements ballot item was discussed, and it was voted

to be sent out to ballot. The ballot was issued on February 14, 2018, and it received one negative and various comments.

Next Action CPSC staff will provide incident data to ASTM and participate in the next ASTM subcommittee meeting scheduled for May 2018, and staff continues to develop a final rule briefing package in FY 2018.

Infant Slings (Sling Carriers)

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Consumer Safety Specification for Sling Carriers* (ASTM F2907-15)

Mandatory Standard(s) 16 CFR part 1228, *Safety Standard for Sling Carriers*

Purpose To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with sling carriers (sometimes called “infant slings”).

Activities Staff attended and participated in a subcommittee meeting held on October 24, 2017. During the meeting, it was determined that an old ballot item pertaining to attachment of warning labels, issued in an attempt to align with the federal regulation for slings, was reissued incorrectly. The subcommittee decided not to pursue the item. In January and February 2018, staff participated in two task group meetings pertaining to single vs. multiple occupancy of slings. Currently, the standard contains a warning label that states slings should only be used by a single occupant. The task group was formed because some manufacturers have developed slings intended for twins, and would like the standard to allow for their products via an alternative warning statement for instructional literature. On March 19, 2018, ASTM issued two new ballot items for the sling standard. One item proposes to revise several test requirements for slings that are designed to carry more than one occupant at a time. The other item pertains to a warning regarding single and multiple occupancy. Staff intends to vote negative and has drafted a letter to ASTM regarding the warnings ballot, expressing concern with the language that was balloted. At the end of the reporting period, the comment letter had not yet been sent, and the ballot results are not known.

Next Action Staff will participate in the next ASTM subcommittee meeting in May 2018.

Infant Swings

<i>Staff Contact</i>	Kish, Celestine
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Infant Swings (ASTM F2088-15)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1223, <i>Safety Standard for Infant Swings</i>
<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 for infant swings.
<i>Activities</i>	There was no activity on the voluntary standard for infant swings during the reporting period.
<i>Next Action</i>	Staff will attend and participate in the next task group teleconference, scheduled to be held in April 2018.

Infant Walkers

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>ASTM Standard Consumer Safety Performance Specification for Infant Walkers (ASTM F977-12)</i>
<i>Mandatory Standard(s)</i>	16 CFR part, 1216 <i>Safety Standard for Infant Walkers</i>
<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 walkers.
<i>Activities</i>	Staff attended and participated in an ASTM subcommittee on October 26, 2017. The subcommittee reviewed a proposal to adopt ad hoc requirements for warnings and instructions and agreed to send it to ballot. The subcommittee also reviewed a request from CPSC staff, noting that the specification of hardwood floor, which is currently in Figure 10 only, should also be included in the standard text in section 7.6. The subcommittee agreed this change could be included with the ad hoc ballot item. In addition, a task group formed to review standard and see if there are other lingering clarifications that are needed. On March 16, 2018, ASTM issued three ballot items on walkers: (1) Ad hoc warning and instructional requirements, (2) stair test revisions, and (3) walker stability revisions. As of the end of the reporting period, the ballot results were not available.

Next Action Staff will participate in the next subcommittee meeting, scheduled for May 2018.

Inflatable Play Devices (e.g., Noncommercial “Bounce Houses” and Inflatable Slides)

Staff Contact Amodeo, Vince

Voluntary Standard(s) *Standard Consumer Safety Specification for Constant Air Inflatable Play Devices for Home Use* (ASTM F2729-12)

Mandatory Standard(s) N/A

Purpose To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with inflatable play devices intended for home use.

Activities Staff attended a subcommittee meeting on November 15, 2018. During the meeting, the subcommittee reviewed the ballot results. The subcommittee also discussed possible exemption for entanglement and acute angle hazards for attachments that are high enough. Although all of the ballot comments were resolved, three members filed an appeal to ASTM’s Committee on Standards (COS) regarding how the negative comments were resolved. The COS determined that the appeals had no merit, and ASTM is moving forward with publication of the new standard in spring 2018.

Next Action Staff will participate at the next subcommittee meeting set for May 2018.

Liquid Laundry Packets

Staff Contact Hanway, Steve

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

Mandatory Standard(s) N/A

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

Activities Staff attended and participated in an ASTM subcommittee meeting held on October 27, 2017, to establish reduction goals for incidents involving liquid

laundry packets. Before the meeting, staff provided ASTM with a report outlining baseline incident data pertaining to hospital emergency room visits due to ingestion of liquid laundry packets. The subcommittee reviewed and discussed the report during the meeting. In addition, members presented other documented reductions (including baby walkers and mouthwash). After much discussion, it was clear that there was no quick and easily agreeable reduction target. A task group was established to continue to meet regularly to determine an appropriate and agreeable target before the post-implementation report. Staff attended several task group meetings during the reporting period. No consensus on reduction goals was reached, and the task group will consider how to address the results of the post-transition period when they become available. On February 12, 2018, staff sent ASTM a second report on hospital emergency room visits associated with liquid laundry packets. CPSC presented and discussed the findings (along with findings from the Rocky Mountain Poison and Drug Center) at the full subcommittee meeting held on March 6, 2018.

Next Action Staff will attend and participate in future task group meetings and at the next subcommittee meeting scheduled in June 2018, where a third report will be presented.

LP Gas Outdoor Fire Pit

Staff Contact Kim, Yeon

Voluntary Standard(s) *Outdoor Decorative Gas Appliances* (ANSI Z21.97-2017/CSA 2.41-2017)

Mandatory Standard(s) N/A

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 outdoor gas decorative appliances, such as fire pits.

Activities Staff attended and participated in a technical subcommittee meeting on January 17, 2017. During this meeting, comments and potential changes to the standard were discussed. On January 31, 2018, staff attended a joint technical subcommittee meeting for ANSI standards on gas-fired illuminating appliances (Z21.42), outdoor cooking gas appliances (Z21.58), and outdoor decorative gas appliances (Z21.97) was held via teleconference.

Next Action Staff will attend and participate in the next subcommittee meeting scheduled in September 2018.

Nanotechnology

Staff Contact Matheson, Joanna

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

Mandatory Standard(s) N/A

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

Activities On Tuesday, March 20, 2018, staff attended the ANSI Nanotechnology Standards Panel meeting, held to discuss standardization needs in the graphene community. Several stakeholders gave presentations. In addition, stakeholders mentioned needing to include education about what standards exist, and need to distinguish between types of graphene nanomaterials (*e.g.*, flake, film, single layer).

On March 21, 2018, each of the US TAGs to ISO Technical Committee 229 working groups met simultaneously to review current work items that were under ballot, projects that are nearing completion, new work items, and the anticipated agenda for the upcoming joint meeting in Ottawa, Canada. CPSC staff attended and participated in these meetings. In addition, the working groups discussed work items for future activities and outreach efforts. The US TAG remains active in ISO standard development, including work on a general plain language guide, guides on standard terms, and definitions for specific nanomaterials and nano-manufacturing, and standards on nanomaterial specifications, characterizing nanomaterials (*e.g.*, graphene), methodology characterization, and screening methods for toxicity.

Next Action Staff will continue to be active in both ASTM subcommittee groups 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)

<i>Mandatory Standard(s)</i>	N/A
<i>Purpose</i>	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.
<i>Activities</i>	Staff attended and participated in two code-making panels (CMP2 and CMP17) during the reporting period. The CMPs are tasked with creating first drafts of the 2020 revision of the NEC, based on public inputs. From January 8 to 13, 2018, staff attended the CMP2 meetings, which covered branch circuits, feeders, and service calculations. CMP2 reviewed and acted on 270 public inputs. From January 15 to 19, 2018, staff participated in the CMP17 meetings. CMP17 covers appliances, fixed electric space heating equipment, fixed outdoor electric deicing and snow-melting equipment, and other electrical equipment. CMP17 reviewed and acted on 385 public inputs.
<i>Next Action</i>	Staff will review and continue to be involved in the development of NEC 2020.

Non-Full-Size Cribs and Play Yards

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards (ASTM F406-15)</i> <i>Standard Consumer Safety Specification for Crib Mattresses (ASTM F2933-16)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1220, <i>Safety Standard for Non-Full-Size Baby Cribs</i> and 16 CFR part 1221, <i>Safety Standard for Play Yards</i>
<i>Purpose</i>	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.
<i>Activities</i>	Staff attended and participated in several task group meetings and the ASTM subcommittee meeting held during October 2017. During the subcommittee meeting, the subcommittee chair discussed recent ballot results. One item related to non-full-size cribs only, and removed the requirement to tighten hardware on the crib during testing. Since this ballot item passed, the revised ASTM standard is now equivalent to CPSC's regulation on non-full-size cribs.

During the October 2017 meeting, task groups also reported on their progress. The task group on the breathability of sleep surfaces presented a proposal to test mattress tautness. The ad hoc warnings task group is still working on revising the standard. The subcommittee chair discussed old business related to the inconsistency between full-size and non-full-size cribs toe-hole requirements. A testing laboratory representative and the subcommittee chair will work together on this issue. New business regarding the CPSC petition was moved to the crib mattress meeting. The mattress vertical displacement task group presented information about new play yard styles having the mattress sit on the floor; thus, the existing test procedure would not work. Staff also participated in follow-up vertical displacement task group meetings in December 2017, to explore a new testing method.

During the reporting period, Hope Nesteruk received authorization to serve as the chairman of the task group established to look into play yard mattress issues. Teleconference task group meetings were held January 16, February 15, and March 29, 2018, to discuss the fit and firmness of play yard mattresses.

The revised standard, ASTM F406-17, was approved on December 1, 2017, and published in January 2018. ASTM officially notified staff of the new standard on March 14, 2018, and advised that “the 2017 revisions made to this standard are related only to the sections covering non-full-size baby cribs and are not related to the requirements for play yards currently incorporated as a mandatory consumer product safety standard in 16 CFR part 1221.” Staff is preparing an update briefing package regarding revision of the non-full-size crib standard.

Next Action CPSC staff will continue to provide technical assistance to the subcommittee, participate in task group activities, and attend the next subcommittee meeting, scheduled for May 2018. Staff will also bring a briefing package to the Commission with recommendations on adopting ASTM F406-17 in FY 2018.

Non-Integral Firearm Locking Devices

Staff Contact Brookman, Matt

Voluntary Standard(s) *Standard Safety Specification for Non-Integral Firearm Locking Devices* (ASTM F2369-16)

Mandatory Standard(s) N/A

Purpose To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with children defeating firearm locking devices.

Activities CPSC staff reviewed the standards and developed several recommendations based on a literature review and physical testing. On February 9, 2018, staff sent a report and cover letter to ASTM, reviewing the effectiveness of two ASTM standards (F2369 and F2456) to address new interface technologies, currently available on the market. These technologies include biometric and radio frequency identification (RFID). The cover letter provided staff recommendations for the voluntary standards.

For ASTM F2369, staff recommendations included adding a trigger-lock torque requirement and associated test procedure, and identifying requirements for biometric and RFID interfaces. In addition, staff recommended that the scope of the standard should identify a relevant age range, and the standard should require a specific drop mechanism weight for the trigger-lock impact test. Staff also recommended that the ASTM subcommittees monitor new and emerging adaptations of technologies to ensure that these standards continue to provide effective performance requirements for existing and future products.

Next Action Staff will attend and participate in the next subcommittee or task group meetings pertaining to firearm locking devices.

Phthalate Testing Methods

Staff Contact Dreyfus, Matt

Voluntary Standard(s) *Standard Test Method for Determination of Low-Level, Regulated Phthalates in Poly (Vinyl Chloride) Plastics by Thermal Desorption – Gas Chromatography/Mass Chromatography (ASTM D7823-16)*
Standard Test Method for Determination of Low Level, Regulated Phthalates in Poly (Vinyl Chloride) Plastics by Solvent Extraction—Gas Chromatography/Mass Spectrometry (ASTM D8133-17)

Mandatory Standard(s) N/A

Purpose To work with ASTM on revising the standard to develop new test methods for determining the presence of low-level, regulated phthalates in poly (vinyl chloride) plastics.

Activities Staff reviewed the meeting minutes from an ASTM subcommittee meeting. The subcommittee is planning to update the methods outlined in ASTM D8133 and D7823 to add a regulated phthalates appendix. In addition, an interlaboratory study is being planned.

Next Action Staff will participate in future ASTM meetings when scheduled, as well as the interlaboratory study.

Playground Equipment (Home)

<i>Staff Contact</i>	Lee, Kevin
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Performance Specification for Home Playground Equipment (ASTM F1148-17)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with home playground equipment.
<i>Activities</i>	Staff attended and participated in the November 2017 subcommittee meeting. There are outstanding ballot items on this standard, but most are being held up, until one negative gets resolved. A revised standard is anticipated in late spring 2018. During the meeting, CPSC staff was asked to supply incident data on rope ladders, flexible climbers, and nets.
<i>Next Action</i>	Staff will participate in the next subcommittee meeting, scheduled for May 2018, and staff will supply the requested incident data.

Playground Equipment (Public)

<i>Staff Contact</i>	Lee, Kevin
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Performance Specification for Public Playground Equipment (ASTM F1487-17)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with public playground equipment.
<i>Activities</i>	Staff attended and participated in the subcommittee meeting held in November 2017. During the meeting, the outstanding ballots for ASTM F1487 were reviewed. In July 2017, ASTM balloted the installation revision again, along with six other ballot items, including revisions or new definitions, revisions to performance requirements and test procedures, clarifications, and updated references. Most all of the ballot items received negatives and were reviewed by the working groups. As of the end of the reporting period, the negative votes had not been resolved. Also during the November 2017 meeting, the task groups

provided updates. Both ISO and the Canadian Standards Association is moving forward to publish a public playground standard.

Next Action CPSC staff will participate in the next subcommittee meeting, scheduled for May 2018.

Playground Surfacing

Staff Contact Lee, Kevin

Voluntary Standard(s) *Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment (ASTM F1292-17a)*
Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment (ASTM F1951-14)
Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment (ASTM F3012-14)

Mandatory Standard(s) N/A

Purpose To work with ASTM on revising the standard to address the hazard patterns associated with playground surfacing.

Activities ASTM F1292-17a was approved and published during the reporting period. Staff attended and participated at the ASTM meeting on November 17, 2017. During the meeting, staff provided an update of the work being done on crumb rubber in conjunction with the Federal Research Action Plan, and the study on impact attenuation and maintenance.

Next Action Staff will attend the next ASTM subcommittee meeting, scheduled for May 2018.

Portable Fireplaces

Staff Contact Ayers, Scott

Voluntary Standard(s) ASTM WK60451 (potential new standard in development)

Mandatory Standard(s) ANPR published in December 2011

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

The ASTM task group on portable fireplaces submitted a draft new standard for ballot, to the ASTM F15.72 subcommittee on September 17, 2017. Several negatives were cast and found to be persuasive. The task group met several times between January 16 and March 20, 2018, revising the draft standard to address the comments raised in the negative votes.

Staff also attended and participated in the HPBA technical meeting on March 7, 2018. Staff provided an update on the status of work on portable fireplaces.

Next Action

Staff will continue to work with the ASTM task group to develop the new standard.

Portable Generators

Staff Contact Buyer, Janet

**Voluntary
Standard(s)**

Safety and Performance of Portable Generators (ANSI/PGMA G300-2015)
Standard for Portable Engine-Generator Assemblies (UL 2201)

**Mandatory
Standard(s)**

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

Purpose

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 serious injuries.

Activity

On November 30, 2017, CPSC staff sent a letter to the Chair of UL STP 2201 regarding the proposed second edition of UL 2201 that was opened for recirculation. Staff's letter supported the proposal, as written. UL 2201 was approved as an ANS in January 2018.

Also on November 30, 2017, staff submitted a letter to the Technical Director of PGMA, voting affirmative for the canvass ballot on ANSI/PGMA G300. The PGMA standard achieved consensus, but with comments. PGMA adjudicated the comments, and submitted a revised draft to canvass members. The most substantive change was eliminating the recommendation to keep generators at least 5 feet from windows, doors and vents (to which several commenters had objected). The revised standard includes staff's recommended warning label, which uses the term "far away from windows doors and vents." Additionally, the revision includes another instructional label to point the exhaust away. The standard has achieved consensus; but, as of the end of the reporting period, the standard had not yet been approved by ANSI as an ANS.

Next Action Staff will continue to work with PGMA and UL to develop new requirements for the standard, as appropriate, and continues to develop a final rule briefing package to the Commission in FY 2019.

Portable Hook-On Chairs

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Hook-On Chairs (ASTM F1235-15)*

Mandatory Standard(s) 16 CFR part 1233, *Safety Standard for Hook-On Chairs*

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

Activities On October 26, 2017, staff attended and participated in the hook-on chair subcommittee meeting. A proposal to address flexible (*i.e.*, fabric) passive crotch restraints was reviewed. After discussion by the subcommittee, the ballot language changed the word “installed” to “permanently attached” in section 6.7.1.1. This was sent to ballot on March 16, 2018. The results of the ballot item were not known by the end of the reporting period.

Next Action Staff will attend and participate in the next subcommittee meeting in May 2018.

Power Equipment (Table Saws)

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))*

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

Activities There has been no staff activity during the first half of FY 2018 on the voluntary standard for table saws.

Next Action CPSC staff will continue to provide technical assistance to UL toward the adoption of AIMS requirements for table saws and continues to develop a final rule briefing package in FY 2019.

Pressure Cookers

Staff Contact McCallion, Richard

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

Mandatory Standard(s) NA

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

Activities There has been no staff activity during the first half of FY 2018 on the voluntary standard for pressure cookers.

Next Action Staff is analyzing incident data and intends to contact UL regarding potential proposals to revise the voluntary standard UL 0136.

Recreational Headgear

Staff Contact Hall, Ian

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

Mandatory Standard(s) N/A

Purpose To work with ASTM to develop a new voluntary standard for headgear sensors.

Activities In November 2017, staff attended and participated in the F08.53 subcommittee meeting on helmets. Staff is leading the working group, which also met in November 2017, to develop a standard on helmet sensors. The members provided

comments on CPSC's draft abstract and draft scope. CPSC staff is in the process of updating the abstract and scope document in preparation for the next meeting.

Next Action CPSC staff will participate in the next ASTM subcommittee meeting, set for May 2018.

Recreational Off-Highway Vehicles (ROVs)

Staff Contact Paul, Caroleene

Voluntary Standard(s) *Recreational Off-Highway Vehicles Association (ANSI/ROHVA 1-2016) and American National Standard for Multipurpose Off-Highway Utility Vehicles (ANSI/OPEI B71.9-2016)*

Mandatory Standard(s) NPR *Recreational Off-Road Vehicles* (79 FR 68964 November 19, 2014))

Purpose 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 There has been no activity during the first half of FY 2018 regarding the voluntary standard on recreational off-road vehicles.

Next Action Staff intends to continue working with ROHVA and focus groups toward creating effective messaging for consumers regarding the hang tag.

Safety Locks and Other Household Child Inaccessibility Devices

Staff Contact Lee, Kevin

Voluntary Standard(s) None at this time

Mandatory Standard(s) N/A

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

Activities Staff attended and participated in the first ASTM meeting associated with child

cabinet locks. Staff provided a summary of the incident data and described the different methods children are using to bypass cabinet locks. Staff also reviewed test results from preliminary testing conducted on a variety of available products. During the meeting, the scope of the new standard was discussed. The subcommittee met again on January 4, 2018, and on March 26, 2018, where the scope of the standard and performance requirements were discussed. In addition, a task group was formed to look at the two styles of locks—internal and external—to determine how they should be treated in the standard.

Next Action Staff will continue to participate in the task group and subcommittee and will attend any upcoming meetings, when scheduled.

Self-Balancing Scooters and Light Electric Vehicles

Staff Contact Amodeo, Vince

Voluntary Standard(s) *Electrical Systems for Self-Balancing Scooters* (UL 2272)
Recreational Powered Scooters and Pocket Bikes (ASTM F2641-15)

Mandatory Standard(s) N/A

Purpose To work with UL and ASTM on revising the standards to strengthen the safety provisions addressing hazards associated with self-balancing scooters.

Activities Staff attended and participated in the ASTM F15.58 task group meeting on February 27, 2018. The task group reviewed the ballot results from the 2017 balloting of the draft standard. Task groups were set up to work on scope, definitions and performance requirements. During the meeting, the task group also discussed age-grading for users. One of the concerns was not just to delineate three age categories, but also to exclude too-young users. The lowest of the age groups had been “younger than 8 years of age,” and that now is set at 3 to 8 years. The working group also adjusted the maximum allowable speeds associated with each age group.

There was no staff activity during the reporting period on the UL voluntary standard on self-balancing scooters.

Next Action Staff will attend and participate in the next ASTM task group meeting, scheduled for April 2018. The task group is expected to finish reviewing ballot result comments and finalize the draft standard during this meeting.

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

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

Activities On March 20, 2018, a notice was published in the *Federal Register* to begin a 60-day comment period on a CPSC-sponsored survey to assess use of smoke and/or carbon monoxide alarms. The contractor (Eureka Facts) is to survey 1,185 homes with the data from the initial 50 homes to be evaluated to identify any issues with the survey. Interviews will be conducted in the consumers' homes and by phone.

NFPA 72 issued two Tentative Interim Amendments (TIA) for ballot in January 2018. One TIA is to delay the effective date (January 2019) for implementing nuisance-resistance smoke alarms near cooking appliances in homes until January 2022, and the second is to delete the requirement for all smoke alarms to be nuisance-resistant in homes. Both TIAs reached consensus.

Next Action Staff intends to 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

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Soft Infant Carriers (ASTM F2236-16a)*

Mandatory Standard(s) 16 CFR part 1226, *Safety Standard for Soft Infant and Toddler Carriers*

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

<i>Activities</i>	ASTM balloted two changes to the voluntary standard at the close of FY 2017, and the ballot results were reviewed at the October 24, 2017 subcommittee meeting. The ballots were intended to harmonize the warning and instruction sections with the ad hoc recommendations for warning format. Most negatives were addressed editorially and withdrawn. One negative was found persuasive. In addition, a task group was formed to look at issues related to back-carry position and discrepancies between test labs suggesting clarifications are needed. On March 16, 2018, ASTM issued two more ballot items for soft infant and toddler carriers. One item contains a new warning for using the product when nursing the occupant, and the other was a revised ballot of the warning ad hoc requirements. The ballot results are not known because the ballot will close after the reporting period ended.
<i>Next Action</i>	CPSC staff will participate in the next subcommittee meeting, scheduled in May 2018.

Sports Protective Gear

<i>Staff Contact</i>	McCallion, Richard
<i>Voluntary Standard(s)</i>	Various headgear standards developed by NOCSAE.
<i>Mandatory Standard(s)</i>	N/A
<i>Purpose</i>	To work with NOCSAE on revising the standards to strengthen safety provisions addressing hazards associated with football helmets.
<i>Activities</i>	Staff participated in NOCSAE's winter meeting on February 2, 2018, where NOCSAE reviewed the status of various standards. NOCSAE's Scientific Advisory Committee reported on their recent activity pertaining to head impact and the development of a youth football helmet standard.
<i>Next Action</i>	CPSC staff will continue to monitor NOCSAE standards and attend future NOCSAE board meetings.

Spray Polyurethane Foam (SPF) Insulation

<i>Staff Contact</i>	Layton, Adrienne
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Voluntary Standard(s)	<p><i>Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers</i> (ASTM D8142-17)</p> <p><i>New Test Method for Estimating Emissions of Methylene diphenyl diisocyanate (MDI) from Spray Polyurethane Foam (SPF) Insulation using Emission Cells or Micro-Scale Environmental Test Chambers</i> (ASTM WK58355 –under development)</p> <p><i>Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-Scale Spray Room</i> (ASTM WK58354- under development)</p> <p><i>Conducting emission and fate modeling for Spray Polyurethane Foam (SPF) insulation in an indoor environment</i> (ASTM WK58356 – under development)</p>
Mandatory Standard(s)	N/A
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 a task group teleconference on March 20, 2018. During the teleconference, the task group discussed details regarding the planning of an intralaboratory study regarding test methods for determining chemical emissions from SPF.
Next Action	Staff will continue to provide technical support to the subcommittee and participate in the next subcommittee meeting, scheduled in April 2018.

Stationary Activity Centers

Staff Contact	Lee, Kevin
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Stationary Activity Centers</i> (ASTM F2012-18)
Mandatory Standard(s)	Under development, in accordance with Section 104 of the CPSIA.
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	ASTM approved and published a revised standard, ASTM F2012-18, in March 2018. This revision contained several changes, including an update of the warnings and labeling language, and new requirements for spring-supported stationary activity centers.

On October 25, 2017, staff attended and participated in the ASTM subcommittee meeting. During the meeting the incident data supplied by CPSC staff was reviewed, and it was pointed out that choking from toys is another anticipated hazard. A task group was established to look at the testing of these toys and the activity center as a system and identify any issues related to impact, small parts, and entanglement. Staff also attended (via teleconference) and participated in the January 23, 2018 subcommittee meeting. Staff provided an update on the regulatory project associated with stationary activity centers. At the end of the reporting period, staff's draft briefing package for the notice of proposed rulemaking, under Section 104 of the CPSIA, was under review.

Next Action Staff will supply incident data to ASTM and participate in the next subcommittee meeting, scheduled for May 2018, and staff continues to develop an NPR briefing package in Fiscal Year 2018.

Swimming Pools, Aboveground (Child Drowning)

Staff Contact Bathalon, Susan

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

Mandatory Standard(s) N/A

Purpose 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.

Activities Staff attended a January 18, 2018 teleconference regarding ANSI/APSP/ICC-4a-2013, and participated in discussions concerning the safety of pool ladders for aboveground swimming pools. Members also discussed new potential language for a ballot item. Staff expects the ballot item to be circulated in spring 2018.

Next Action Staff will participate in the review of the APSP ballot item and will attend future meetings, when scheduled.

Swimming Pools/Spas Drain Entrapment

Staff Contact	Sharpless, Perry
Voluntary Standard(s)	<i>American National Standard for Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs</i> (ANSI/APSP-16-2017).
Mandatory Standard(s)	16 CFR part 1450, <i>Virginia Graeme Baker Pool and Spa Safety Act</i>
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	APSP notified staff via correspondence dated March 27, 2018, that APSP-16 was approved as an American National Standard, by ANSI. The revised standard was published in early FY 2018.
Next Action	Staff will review the revised standard and provide recommendations to the Commission about updating the referenced version in 16 CFR part 1450.

Swimming Pools/Spas Safety Vacuum Relief System

Staff Contact	Sharpless, Perry
Voluntary Standard(s)	<i>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</i> – APSP-17 (proposed standard, not yet approved).
Mandatory Standard(s)	16 CFR part 1450, <i>Virginia Graeme Baker Pool and Spa Safety Act</i>
Purpose	To work with APSP and ASME 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 is participating in the newly organized APSP-17 committee and is currently reviewing draft requirements for the standard.

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

Tents

Staff Contact Tenney, Allyson

Voluntary Standard(s) ASTM (Under development, not yet published)

Mandatory Standard(s) N/A

Purpose To work with ASTM on the development of a standard addressing hazards associated with tent flammability.

Activities There was no activity in the first half of FY 2018 regarding the development of the voluntary standard.

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

Toddler Beds

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Toddler Beds* (ASTM F1821-16)

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

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

Activities On October 23, 2018, staff attended and participated in the toddler bed subcommittee meeting. The subcommittee chair discussed the balloted item regarding the definition of a “corner post.” There were two negative votes; one was withdrawn, and the other was found to be non-persuasive. The non-persuasive negative had not yet been re-balloted at the end of the reporting period.

Next Action Staff will continue to provide technical assistance to the subcommittee and participate in the next subcommittee meeting, scheduled for May 2018.

Torch Fuel Containers

Staff Contact Talcott, Kristen

Voluntary Standard(s) ASTM Subcommittee F15.72 – (Under development)- *New Specification for Torch Fuel and Lamp Oil Packaging* (and other related standards)

Mandatory Standard(s) N/A

Purpose To work with ASTM on the development of a standard addressing hazards associated with torch fuel, lamp oil, and their containers.

Activities On November 28, 2017, ASTM balloted a draft new standard for Torch Fuel and Lamp Oil Packaging. The ballot received one negative and several comments. Staff participated in a March 14, 2018 task group meeting where the comments and a negative from the ballot were discussed. The task group made editorial changes to the draft standard to address comments and items in the negative. Before the next meeting, task group members plan to review the draft and make suggestions on any changes necessary to finalize the language for re-ballot. Task group members also agreed to edit the example warning labels so that their formatting is consistent with requirements.

Next Action Staff will participate in the next ASTM Torch Fuel and Lamp Oil task group meeting, anticipated for April 2018.

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*

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

ASTM F963-17 was approved and published in late FY 2017. The standard included the change to the projectile requirements, as balloted earlier in the year, and it also included many other changes, which were not balloted. On September 1, 2017, ASTM sent an official notification to CPSC about the newly published standard. In November 2017, staff prepared a briefing package for the Commission's consideration with a recommendation to accept all changes in ASTM F963-17, with the exception of the addition of text in Section 8.20.1.5 (5) that related to an exemption for push-pull toys from sound-producing toy requirements. Staff believes this exemption will decrease safety. The Commission agreed with staff and voted accordingly.

Staff sent a letter to the president of ASTM, notifying her of the Commission vote on the Toy Standard, and stating that staff would set up a meeting to begin work on improving the test method for sound levels from push/pull toys in ASTM F963. On January 4, 2018, staff sent a letter to the ASTM Subcommittee Chairman, regarding future work on the acoustics requirement. A task group meeting was held on March 27, 2018, where staff attended and participated in the discussion.

In addition to the acoustics work, staff participated in task group meetings dealing with projectile toys. These meetings occurred on October 16, 2017 and January 3, 2018. Staff also was involved in toy international standards during the reporting period. In October 2017, staff attended ISO/TC 181, *Safety of Toys* meetings and on December 19, 2017, staff attended the European Union Expert Group on Toy Safety meeting.

On February 14, 2018, ASTM issued two ballot items pertaining to projectile toys. Both items passed and ASTM will be publishing a revision to the standard.

Next Action

ASTM is expected to publish a revision to F963 in FY 2018. Staff will continue to participate in the ASTM task groups and the ISO TAG.

Trampoline Parks, Amusement Rides/Adventure Attractions

Staff Contact McCallion, Richard

Voluntary Standard(s)

Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices (ASTM F770-17^{e1})
Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices (ASTM F1193-17)
Standard Practice for Design of Amusement Rides and Devices (ASTM F2291-17)
Standard Guide for Auditing Amusement Rides and Devices (ASTM F2274-17a)
Design, Manufacture, Installation, Operation, Maintenance, Inspection and Major Modification of Trampoline Courts (ASTM F2970-15)

***Mandatory
Standard(s)***

N/A

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

At the end of FY 2017, CPSC staff sent a letter to the Chairman of ASTM Committee F24 on Amusement Rides and Devices. The letter requested that ASTM review a recent incident involving a fatality on a portable amusement ride, and to develop performance requirements to address hazardous conditions before failures similar to the ride failure that resulted in a patron fatality. Staff attended the ASTM F24 committee meeting held in October 2017, where the F24 executive committee formed three task groups (EVO I, II, and III) to develop standard recommendations to address the areas of design, manufacture, inspection, maintenance, and operations. Staff was additionally involved in several standard development task group meetings. The operations, maintenance, and inspection task group, EVO III, met on December 19, 2017, January 16, 2018, and February 6, 2018, where additional inspection requirements were developed related to record keeping, non-destructive testing, and additional training requirements. The manufacturing/operations task group, EVO II, met on December 13, 2017, January 10, 2018, and February 7, 2018. Various potential ballot items pertaining to welding, corrosion, material thickness and maintenance program requirements were discussed. The design/engineering task group met on February 5, 2018, where discussions centered on the requirement for an engineer to improve the existing maintenance program requirements for amusement rides. In February 2018, staff attended and participated in another F24 committee meeting. During this meeting, the three task groups provided reports and potential ballot items were discussed.

ASTM issued two ballot items on January 15, 2018 to revise ASTM F2291-17. Those ballot items both received several negatives. On March 14, 2018, ASTM issued 20 ballot items intended to revise the four ASTM standards on amusement rides outlined above. The results of this ballot were not known as of the end of the reporting period.

Next Action

Staff will review the ballot results and attend and participate in the next task group and committee meetings.

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)
Draft Standard Methods of Tests for Evaluating Fire and Ignition Resistance of Upholstered Furniture Using a Flaming Ignition Source (NFPA 277)

***Mandatory
Standard(s)***

N/A

Purpose

To work with ASTM on revising their standard to strengthen its safety provisions addressing hazards associated with fires involving upholstered furniture and to work with the NFPA Fire Test Committee Task Group to develop a new open-flame standard.

Activities

On February 26, 2018, staff sent a letter to NFPA Fire Tests Committee Chairman containing comments on the draft standard NFPA 277 that was circulated to secondary task group members in FY 2017. Staff commented that the test method proposed in NFPA 277 is not appropriate for addressing residential fires involving upholstered furniture and requested the task group reconsider the draft provisions. In March 2018, staff attended NFPA Fire Test Committee meetings, where the draft standard was passed out of committee to the Standards Council.

Staff is participating in an ASTM round-robin study to evaluate the effect of foam thickness in support of a new work item in ASTM E15.15.

Next Action

CPSC staff will participate in the next ASTM E05 Committee meeting scheduled for June 2018, and staff intends to follow up with the NFPA Standards Council, regarding the draft NFPA 277. The NFPA Standards Council will vote on the draft standard in April 2018.

Washing Machines

Staff Contact

Kim, Yeon

***Voluntary
Standard(s)***

Electric Clothes Washing Machines and Extractors (UL 2157)

***Mandatory
Standard(s)***

N/A

Purpose

To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with top-loading washing machines.

Activities

Staff attended and participated in two task group meetings pertaining to high-spin speed under unbalanced conditions in washing machines. During the November 29, 2017 meeting, CPSC-supplied incident data were reviewed. AHAM provided an update on their testing activities. During the January 10, 2018 meeting, the task

group discussed the incident data again. In addition, AHAM reviewed their testing work with a goal of establishing uniform criteria for validity of the test and acceptability of the test results.

Next Action Staff intends to attend and participate in future meetings for STP 2157.

Window Coverings

Staff Contact Balci-Sinha, Rana

Voluntary Standard(s) *Standard for Safety of Corded Window Covering Products* (ANSI/WCMA A100.1-2018)

Mandatory Standard(s) ANPR published in January 2015. (80 FR 2327, January 16, 2015)

Purpose To work with WCMA on revising the standard to strengthen its safety provisions addressing hazards associated with window covering cords.

Activities ANSI published a revision to the window coverings standard, ANSI/WCMA A100.1-2018, on January 8, 2018. Staff reviewed the published standard and determined that many of the revisions in the recirculation ballot were inadvertently left out of the published standard. WCMA is preparing to update the 2018 version to include the missing balloted revisions.

Staff attended and participated in the first task group meeting dealing with rigid cord shrouds on March 23, 2018. The rigid cord shroud activity is the beginning of the work for future revision of the WCMA/ANSI standard. Other issues, including custom product requirements, may be addressed at future task group meetings. Much of the March 23, 2018 meeting was spent on definitions.

Next Action Staff will attend and participate in upcoming task group meetings scheduled for spring 2018.

Youth-Resistant Firearms Security Containers

Staff Contact Brookman, Matt

Voluntary Standard(s) *Standard Specification for Youth-Resistant Firearms Containers* (ASTM F2456-16)

***Mandatory
Standard(s)***

N/A

Purpose

To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with children accessing firearms in security containers.

Activities

CPSC staff reviewed the standards and determined several recommendations, based on a literature review and physical testing. On February 9, 2018, staff sent a report and cover letter to ASTM. The report reviewed the effectiveness of two ASTM standards (F2369 and F2456) to address new interface technologies, currently available on the market. These technologies include biometric and radio frequency identification (RFID). The cover letter provided staff recommendations for the voluntary standards.

For the voluntary standard ASTM F2456, staff recommends that the standard should add a mass to the interior of the container that represents the size, shape, and weight that is typical of fully loaded full-size 9 mm or 45 ACP handguns. Staff also recommends that the ASTM subcommittees monitor new and emerging adaptations of technologies to ensure that these standards continue to provide effective performance requirements for existing and future products.

Next Action

Staff will attend and participate in the next subcommittee or task group meetings pertaining to firearm security containers.