



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

Memorandum

Date: May 11, 2017

TO: The Commission
Todd A. Stevenson, Secretary

THROUGH: Mary T. Boyle, General Counsel
Patricia H. Adkins, Executive Director
J. DeWane Ray, Deputy Executive for Safety Operations
George A. Borlase, Ph.D., AED Hazard Identification and Reduction

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

SUBJECT: Voluntary Standards Activities FY 2017 Mid-Year Report

Attached is U.S. Consumer Product Safety Commission staff's Voluntary Standards Activities FY 2017 Mid-Year Report (October 1, 2016 – March 31, 2017), which is forwarded for your information. If you have any questions, please contact Patricia Edwards at: 301-987-2224, or at: pedwards@cpsc.gov.

VOLUNTARY STANDARDS TRACKING AND ACCESS REPORT



CPSC STAFF VOLUNTARY STANDARDS ACTIVITIES

**FY 2017 MID-YEAR REPORT
(October 1, 2016–March 31, 2017)**

**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

**Table 1: New, Revised or Reaffirmed Voluntary Standards Approved
Oct 2016 – March 2017**

SDO	Standard	Product	Approval	Publication Date (Month/Year)
ASTM	F2640-16	Booster Seats	12/1/2016	Mar-17
ASTM	F2640-17	Booster Seats	3/1/2017	Mar-17
ASTM	F2640-17e1	Booster Seats	3/1/2017	Apr-17
ASTM	D3475-17	Child-Resistant Packages	3/1/2017	Apr-17
UL	2034 (Ed 4)	CO Alarms	3/31/2017	Mar-17
ASTM	F404-17	High Chairs	2/1/2017	Mar-17
ASTM	F1148-17	Home Playground Equipment	3/1/2017	Apr-17
ASTM	F2670-17	Infant Bath Tubs	1/1/2017	Jan-17
ASTM	F3116-16a	Infant Inclined Sleep Products	10/1/2016	Oct-16
ASTM	F3118-17	Infant Inclined Sleep Products	1/1/2017	Mar-17
ASTM	F2369-16	Non-Integral Firearm Locking Devices*	10/1/2016	Oct-16
ASTM	F1487-17	Playground Equipment for Public Use	2/15/2017	Apr-17
UL	2272 (Ed 1)	Self-Balancing Scooters	11/21/2016	Nov-16
UL	217 (Ed 8)	Smoke Alarms	11/21/2016	Nov-17
ASTM	F1821-16	Toddler Beds	10/1/2016	Oct-16
ASTM	F963-16	Toys	8/1/2016	Oct-16
ASTM	F2456-16	Youth-Resistant Firearm Containers*	10/1/2016	Oct-16

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 requirements of the CPSIA. 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.” The Commission added six 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; and infant slings.

ASTM subcommittees develop and maintain voluntary safety standards for durable infant or toddler products, as well as other products. These subcommittees generally are comprised of consumer groups, juvenile product manufacturers, independent child product engineers and experts, and may include other interested stakeholders. Selected subcommittees, with input from CPSC staff, develop revised voluntary safety standards. Cooperative activities between 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 conducting laboratory validation of testing approaches.

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 that 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 two final rules under Section 104 of the CPSIA; infant slings and infant bathtubs. In addition, the mandatory standard for toddler beds was revised during the period, to refer to the recently revised voluntary standard.

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 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.

During the reporting period, ASTM notified the Commission that the latest revision of the toy standard, F963-16, had been published. The Commission approved a direct final rule referencing the 2016 version of the toy standard, and the final rule was published on February 2, 2017. ASTM F963-16 took effect as the revised consumer product safety standard for toys on April 30, 2017.

STANDARD DEVELOPMENT ORGANIZATION ABBREVIATIONS

The following list contains abbreviations for standard development organizations or affiliates that staff is working with in the development of the standards covered by this V-STAR report.

ACBMA	American Circuit Breaker Manufacturers Association
AFSL	The American Fireworks Standards Laboratory
AHAM	Association of Home Appliance Manufacturers
AHFA	American Home Furnishing Alliance
ANSI	The American National Standards Institute
APA	American Pyrotechnics Association
APSP	The Association of Pool and Spa Professionals
ASTM	ASTM International
CAN	Health Canada Regulation
CANENA Americas	Council for Harmonization of Electrotechnical Standards of the Nations in the Americas
CSA	Canadian Standards Association
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 for Standards and Technology
NOCSAE	National Operating Committee on Standards for Athletic Equipment
OPEI	Outdoor Power Equipment Industry
PGMA	Portable Generator Manufacturers 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 2017 Mid-Year Report

(October 1, 2016–March 31, 2017)

<i>Product</i>	All-Terrain Vehicles (ATVs)
<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Four Wheel All-Terrain Vehicles (ANSI/SVIA 1-2010)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1420 <i>Standard for All-Terrain Vehicles</i>
<i>Purpose</i>	To revise the standard to include performance requirements to increase the safety of ATVs.
<i>Activities</i>	<p>On October 31, 2016, CPSC staff attended a meeting with SVIA regarding the pre-canvas draft of ANSI/SVIA 1. The draft includes a table that details proposed new requirements for vehicle conspicuity, headlamps, tail lamps, stop lamps and reflectors. Other issues discussed included the definition of “low-pressure tires,” owner’s manuals, and the effective date of the standard. SVIA issued a canvas ballot on December 5, 2016. The canvas ballot included many of the changes discussed at the October 31 meeting, including requirements to increase the conspicuity of the vehicles. Staff exercised its right to vote on the canvas ballot (after obtaining approval from the Executive Director) and submitted an “affirmative with comment” vote on January 26, 2017. As part of their comments, staff urged for an earlier effective date (rather than the “2019 model year vehicles” proposed in the ballot) and that the effective date be based on production date. Although the canvas period is closed, the standard had not been updated as of the end of the reporting period.</p>
<i>Next Action</i>	A revised version of ANSI/SVIA 1 is expected to be approved and published in the near future. Following that, staff will prepare an NPR to update 16 C.F.R. 1420 accordingly. Staff will also continue to work with SVIA, as needed, regarding additional improvements to the standard.

<i>Product</i>	Baby Monitors
<i>Staff Contact</i>	Lee, Doug
<i>Voluntary Standard(s)</i>	<i>Consumer Safety Specification for Baby Monitors (ASTM F2951-13)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To revise the standard to address strangulation and fire hazards associated with the use of baby monitors.
<i>Activities</i>	Staff drafted language regarding requirements for battery-powered baby monitors for the ASTM task group discussion.
<i>Next Action</i>	Staff will participate in the next subcommittee meeting scheduled for April 2017. Staff will be working to help ASTM adopt ASTM F963-16 battery safety requirements into ASTM F2951.

<i>Product</i>	Bassinets/Cradles
<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Bassinets and Cradles (ASTM F2194-16e¹)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1218 <i>Safety Standard for Bassinets and Cradles</i>
<i>Purpose</i>	To revise the ASTM standard to strengthen its safety provisions and to maintain alignment of the voluntary standard and the federal mandatory standard for bassinets and cradles.
<i>Activities</i>	During the reporting period, staff attended and participated in task group meetings for warning/labeling requirements, baby boxes, compact bassinets, and folding mechanisms. The baby box task group, which was formed from the “low standing bassinet” task group, had substantial activity, meeting on November 9, 2016 and March 22, 2017. During the March meeting, requirements associated with handle strength, humidity/extended storage, lid use, rebreathing, and the sleeping surface all were discussed. The task group decided not to ballot any of the requirements as of yet.
<i>Next Action</i>	Staff will participate in the next ASTM subcommittee meeting in April 2017.

Product	Batteries (Button, Coin Cell, Lithium, Toy, and Electronic Devices)
Staff Contact	Lee, Doug
Voluntary Standard(s)	<p><i>Standard for Safety for Products that Incorporate Button or Coin Cell Batteries Using Lithium Technologies</i>, (UL 4200A);</p> <p><i>Standard for Rechargeable Batteries for Mobile Telephones</i> (IEEE 1725);</p> <p><i>Standard for Rechargeable Batteries for Multi-Cell Computing</i> (IEEE 1625);</p> <p><i>Standard for Safety for Lithium Batteries</i> (UL 1642);</p> <p><i>Safety Standards for Primary, Secondary and Lithium Batteries</i> (ANSI/NEMA C18);</p> <p><i>Standard for Household and Commercial Batteries</i> (UL 2054);</p> <p><i>Standard for Audio, Video, and Similar Electronic Apparatus—Safety Requirements</i> (UL 60065);</p> <p><i>Outline of Investigation for Safety of Power Banks</i> (UL 2056);</p>
Mandatory Standard(s)	None for batteries exclusively
Purpose	To provide technical support toward the development and revision of battery safety standards and support developing certification programs for batteries to ensure safe and reliable use. Hazards associated with batteries and battery chargers include: overheating, fire, thermal burns, exposure to electrolytes, explosions, ingestion, and electrical shock from chargers.
Activities	<p>See activity reports for <i>Self-Balancing Scooters</i> and <i>Toys</i> for activity relating to those specific products. This report will cover other battery-related work.</p> <p>Staff has been very active in efforts related to battery safety, some that is outside of voluntary standards development. Staff has been working with UL to develop a meeting/seminar in China in spring 2017 to discuss battery safety. Staff is also participating in a federal interagency lithium battery safety working group to coordinate lithium battery safety issues among agencies. Staff also participated in NEMA meetings on October 18, 2016 and February 21, 2017, regarding ANSI/NEMA C18 standard for lithium batteries. Topics discussed included coin cell ingestion hazard mitigation strategies and counterfeit batteries. NEMA issued a letter ballot in 2017 for ANSI/NEMA C18.3M Part 2. Staff provided written ballot comments regarding the proposed pictogram for ingestion hazards. Staff also participated in a UL 4200A meeting held on November 11, 2016, to define requirements for button/coin batteries that are other than lithium chemistry.</p>
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 and to reduce fire

hazards with batteries. Staff will participate in a CTIA battery workgroup to review and revise requirements for IEEE 1725 and 1625 to address recent issues with cellular phone and portable computing batteries. Staff will continue to monitor other battery standards to address fire and other hazards with batteries.

<i>Product</i>	Bed Rails (Adult)
<i>Staff Contact</i>	Taylor, Michael
<i>Voluntary Standard(s)</i>	ASTM - Not yet published
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To develop an ASTM safety standard for adult portable bed rails to reduce the risk of injury or death.
<i>Activities</i>	On January 30, 2017, ASTM issued a ballot for a new standard entitled, <i>Standard Specification for Adult Portable Bed Rails and Related Products</i> . Staff has participated in the development of this new standard since 2014. Staff provided comments in support of the ballot. Several negatives to the ballot were received, and thus, the standard was not approved, as balloted.
<i>Next Action</i>	Staff will provide input and information to the subcommittee to help prepare a revised draft for balloting.

<i>Product</i>	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 C.F.R. part 1222 <i>Safety Standard for Bedside Sleepers</i>
<i>Purpose</i>	To revise the ASTM standard to strengthen its safety provisions and maintain alignment with the federal mandatory standard for bedside sleepers.
<i>Activities</i>	No known voluntary standards development activity occurred during the

reporting period.

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

Product **Booster Seats**

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Booster Seats (ASTM F2640-17^{e1})*

Mandatory Standard(s) Under development in accordance with Section 104 of the CPSIA

Purpose To help revise the ASTM standard to eliminate or reduce hazards and consider using the voluntary standard as the basis for a federal standard for booster seats.

Activities ASTM approved and published two new versions and an errata correction of the booster seat voluntary standard in the reporting period. The first revision, ASTM F2640-16, includes new requirements for providing booster seat measurements. The second revision, ASTM F2640-17, includes new warnings and labeling requirements, and testing requirements for attachment to adult chairs. The errata correction (ASTM F2640-17^{e1}) contained minor editorial changes.

During the reporting period, staff attended and participated in a subcommittee meeting held on January 17, 2017. Staff also worked to prepare the briefing package for the NPR on booster seats. Staff is recommending that the Commission reference ASTM F2640-17^{e1}, without modification, as the proposed safety standard for booster seats under Section 104 of the CPSIA.

Next Action Staff's briefing package for the NPR under Section 104 of the CPSIA is expected to the Commission in the third quarter of FY 2017.

Product **Candles and Candle Accessories**

Staff Contact Ayers, Scott

Voluntary Standard(s) *Standard Test Method for Collection and Analysis of Visible Emissions from*

Candles as They Burn (ASTM F2326-04(2015))
Standard Specification for Candle Fire Safety Labeling (ASTM F2058-07(2015))
Standard Specification for Fire Safety for Candles (ASTM F2417-16)
Standard Specification for Fire Safety for Candle Accessories (ASTM F2601-16)
Standard Specification for Annealed Soda-Lime-Silicate Glass Containers That Are Produced for Use as Candle Containers (ASTM F2179-14)
Standard Guide for Terminology Related to Candles and Associated Accessory Items (ASTM F1972-13)

Mandatory Standard(s)

NA

Purpose

To provide technical support to continue developing new, revised, and reapproved candle safety standards to reduce the hazards associated with candle and candle accessories.

Activities

Staff attended several ASTM subcommittee and task group meetings during the reporting period. Staff participation included working with task groups associated with Standards Readability, Candle Accessories, Incident Review, and Visible Emissions. ASTM issued two ballot items associated with candles on January 30, 2017. One was a substantial rewrite of ASTM F2417-16, and the other was the re-balloting of requirements for tea light and taper candle holders for ASTM F2601-16. Both of these ballots received negative votes.

Next Action

Staff will continue to participate in ASTM subcommittee teleconferences and attend subcommittee meetings scheduled for the second half of FY 2017.

Product

Carbon Monoxide Alarms

Staff Contact

Brookman, Matt

Voluntary Standard(s)

Single and Multiple Station Carbon Monoxide Alarms (UL 2034)

Mandatory Standard(s)

NA

Purpose

To revise the UL standard to improve consumer safety associated with carbon monoxide alarms.

Activities

On February 16, 2017, CPSC hosted a Workshop entitled, "Survey on Usage and Functionality of Smoke Alarms and CO Alarms in Households." CPSC staff intends to conduct a national census (or representative in-home survey) on the prevalence and characteristics of smoke alarms and carbon monoxide alarms. The workshop was held to gather feedback from

stakeholder groups for this planned survey. The feedback gathered will help inform the questions and methodology of the survey, as well as information on how the survey is communicated (*i.e.*, what are the really important pieces of data that need to be gathered and included in the overall data set). During the reporting period, staff also reviewed UL 2034 revision proposals. A new revision of the standard was approved and published on March 31, 2017.

Next Action Staff intends to use the information gained during the workshop to continue working with UL to revise and improve the standard.

Product **Changing Tables**

Staff Contact Torres, Carlos

Voluntary Standard(s) *Standard Consumer Safety Specification for Baby Changing Tables for Domestic Use* (ASTM F2388-16)

Mandatory Standard(s) *NPR Safety Standard for Baby Changing Products* (81 FR 66881 (September 29, 2016))

Purpose To help revise the ASTM standard to eliminate or reduce hazards and form the basis for a federal standard for changing tables.

Activities Ballot items were issued on October 25, 2016 regarding a name change for the standard (from *Baby Changing Tables*, to *Baby Changing Products*), terminology, labeling and instructional literature changes; and revised requirements for barriers and restraints. Staff provided comments in support of the ballot items and also urged ASTM to continue to work on requirements for threaded fasteners, as was included in the NPR. Most of the ballot items passed, but are being held, pending resolution of all of the ballots. A second set of ballots was issued on February 28, 2017. An item relating to threaded fasteners was included, as were other items pertaining to terminology and labeling. The ballot closed on March 30, 2017, and the results were not known at the time the reporting period ended.

During the reporting period, staff also attended task group meetings and subcommittee meetings on December 21, 2016, January 17, 2017, and February 8 and 17, 2017. The meetings reviewed and discussed the recently balloted items.

Next Action Staff will participate in the next ASTM subcommittee meeting scheduled in April 2017. In addition, staff is expected to prepare a briefing package for the final rule for changing products in the second half of FY 2017.

<i>Product</i>	Child-Resistant Packaging (“CRP”)
<i>Staff Contact</i>	Eilbert, Mark
<i>Voluntary Standard(s)</i>	<i>Standard Classification of Child-Resistant Packages</i> ASTM D3475-17
<i>Mandatory Standard(s)</i>	Poison Prevention Packaging Act of 1970 (PPPA)
<i>Purpose</i>	To provide technical support on activities of the ASTM Consumer, Pharmaceutical, Child-Resistant and Medical Packaging Subcommittee (D10.32) and the CSA Technical Subcommittee on Child-Resistant Packaging (TC Z253).
<i>Activities</i>	A ballot was issued in January 2017 to revise D3475. The ballot contained one addition, one correction, and a company name update. The ballot passed and the revised standard was approved on March 1, 2017.
<i>Next Action</i>	Staff will participate in the next task group meeting and ASTM D10.32 subcommittee meetings.

<i>Product</i>	Clothes Dryers
<i>Staff Contact</i>	Lee, Arthur
<i>Voluntary Standard(s)</i>	<i>Standard for Electric Clothes Dryers</i> (UL 2158)
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	The purpose of this standard development activity is to reduce clothes dryer fires and injuries.
<i>Activities</i>	On November 1, 2016, staff participated in a joint task group meeting for clothes dryer safety. The meeting centered on the testing of surrogate lint materials. The task group also discussed a special study to gather fire incident data to see if changes made to dryer designs in 2013 to contain fires have been effective. Staff also met with AHAM in November 2016, to review the various proposals and activities of AHAM members, including research on ignition sources of lint in clothes dryers.

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.

Product **Constant-Air Inflatable Play Devices (for Home Use)**
(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) NA

Purpose To revise the ASTM standard to reduce injuries associated with inflatable play devices intended for home use.

Activities Staff attended a subcommittee meeting on November 16, 2017, where past ballot items were reviewed. The ballot items revised the anchoring and stake requirements and also provided new warnings associated with wind conditions. Negatives were received on all balloted items, and the subcommittee found the negatives non-persuasive. It is expected that the negative votes will be resolved and a revised version of the standard will be published before the end of FY 2017.

Next Action Staff will participate at the next subcommittee meeting set for May 2017.

Product **Crib Bumpers**

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 revise the ASTM standard, as necessary, to reduce hazards associated with crib bumpers.

<i>Activities</i>	<p>In late FY 2016, staff presented a briefing package to the Commission entitled, “CPSC Staff Response to the Record of Commission Action on Crib Bumpers.” On October 19, 2016, the Commission voted to amend the FY 2017 Operating Plan to include rulemaking activity for crib bumpers under Section 104 of the CPSIA and to develop an NPR in FY 2018.</p> <p>On December 6, 2016, staff advised ASTM by letter of the Commission’s vote and asked the ASTM subcommittee on infant bedding to form task groups to update ASTM F1917-12 in the following areas: (1) develop firmness requirements, (2) develop airflow requirements, and (3) improve warning and instructional requirements for crib bumpers.</p>
<i>Next Action</i>	Staff will participate in the April 2017 subcommittee meeting on infant bedding, and intends to participate in the ASTM task group on crib bumper requirements.
<i>Product</i>	Cribs (Commercial)
<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Performance Specification for Commercial Cribs (ASTM F2710-13)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1219 <i>Safety Standard for Full-Size Cribs</i> and C.F.R. part 1220 <i>Safety Standard for Non-Full-Size Baby Cribs</i>
<i>Purpose</i>	To revise the ASTM standard to increase the safety of cribs in commercial settings, such as hotels and child care centers, and to keep the standard current with the federal mandatory standard for cribs.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	CPSC staff will review incident data and participate at the next subcommittee meeting.

<i>Product</i>	Cribs (Full-Size)
<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Full-Size Cribs (ASTM F1169-13)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1219 <i>Safety Standard for Full-Size Cribs</i>
<i>Purpose</i>	To participate in any revisions of the ASTM standard to strengthen its safety provisions and to maintain alignment with the federal mandatory standard for full-size cribs.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	Staff will review incident data and continue to provide technical assistance to the subcommittee at future meetings.

<i>Product</i>	Cribs (Non-Full-Size) 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 C.F.R. part 1220 <i>Safety Standard for Non-Full-Size Baby Cribs</i> and 16 C.F.R. part 1221 <i>Safety Standard for Play Yards</i>
<i>Purpose</i>	To revise the ASTM standard to strengthen its provisions and keep the standard current with the federal mandatory standard for non-full size cribs and play yards.
<i>Activities</i>	Task groups looking at play yard accessory entrapment and play yard mattress pad breathability were active during the reporting period. Staff participated in several task group meetings for those two task groups. In addition, under ASTM F2933-16, a task group dealing with play yard replacement mattresses was active. For non-full size cribs, there were no voluntary standards meetings during the reporting period. However, staff sent a letter to the

subcommittee chair asking the group to meet and look at revising the standard to match what is in 16 C.F.R part 1220 because ASTM F406-15 contains a requirement for hardware to be retightened during testing, which was removed from the federal 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 April 2017.

Product **Fireworks**

Staff Contact Valliere, Rodney

Voluntary Standard(s) Various AFSL standards and APA 87-1

Mandatory Standard(s) 16 C.F.R. § 1500.17 *Banned Hazardous Substances* and 16 C.F.R. part 1507 *Firework Devices*

Purpose To provide technical support to the development of safety standards for consumer fireworks.

Activities Staff attended the AFSL Consumer Fireworks Standards committee meeting on December 2 and 3, 2016. On the first day, various fireworks were tested to identify issues related to tip over. In addition, the Commission's Proposed Statement of Policy regarding the Commission's recent interpretation of the phrase "intended to produce audible effects" in the fireworks regulations was discussed.

Also on the regulatory side, on December 14, 2016, staff submitted a briefing package to the Commission recommending proposed changes to current fireworks regulations. Staff briefed the Commission on January 11, 2017, and on January 25, 2017, the Commission approved the draft NPR, along with an amendment to the *Federal Register* notice to clarify that the Commission does not need to convene a chronic hazard advisory panel to review the health effects of two particular compounds in fireworks.

On February 14, 2017, staff attended the APA's Winter Educational Conference where the recent rulemaking efforts were discussed.

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

<i>Product</i>	Flammable Liquids (Containers)
<i>Staff Contact</i>	Ayers, Scott
<i>Voluntary Standard(s)</i>	None at this time
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To develop a voluntary safety standard containing requirements for flame-mitigation devices (FMDs) for flammable liquid fuel containers used in open-flame consumer applications.
<i>Activities</i>	In December 2016, staff submitted a comment to the revision of NFPA 45 <i>Standard on Fire Protection for Laboratories Using Chemicals</i> , regarding laboratory experiments or demonstrations involving flammable liquids and open flames. The comment recommended that containers less than one gallon without straight sides and full openings (like a beaker) have a flame arrestor or another flame-mitigation device to prevent flames from igniting a flammable atmosphere inside the container. In March, 2017, staff submitted a request to CPSC's Executive Director to serve as the task group chair for a new ASTM task group for FMDs. The request was approved on April 6, 2017.
<i>Next Action</i>	Staff sent a letter on April 7, 2017 requesting that ASTM develop a voluntary standard for FMDs on disposable fuel containers. Staff will work with ASTM to form a new task group subcommittee under ASTM F15.72.

<i>Product</i>	Flammable Refrigerants
<i>Staff Contact</i>	Ayers, Scott
<i>Voluntary Standard(s)</i>	<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)
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To provide technical support toward developing voluntary standards requirements for flammable (natural) refrigerants used in household refrigerators and freezers.

Activities Staff participated in two meetings during the reporting period (November 8 and 17, 2016) regarding flammable refrigerants. During the meetings, CSA shared testing data regarding the charge limit for flammable refrigerants used in household refrigerators. A UL ballot was issued regarding a proposal to change the charge limit, and staff provided comments to the ballot item on January 12, 2017. Staff did not oppose the proposal to increase the maximum charge size but recommended a task group investigate adding odorant requirements to the refrigerants. The ballot item passed, and the revised UL standard is expected to be published in Spring 2017.

Next Action Staff will continue participating in the CANENA/UL 60335-2-24 working group meetings and will work with UL task groups that are investigating flammable refrigerants in air conditioners.

Product **Folding Chairs and Stools (Children's)**

Staff Contact Amodeo, Vince

Voluntary Standard(s) *Standard Consumer Safety Specification for Children's Chairs and Stools (ASTM F2613-16e¹)*

Mandatory Standard(s) *NPR Safety Standard for Children's Folding Chairs and Stools (80 FR 63155 (October 19, 2015))*

Purpose To revise the ASTM standard to reduce the hazards associated with children's chairs and stools and to consider using the voluntary standard as the basis for a federal standard for children's folding chairs and stools.

Activities ASTM issued a ballot in December 2016, with changes to the warnings and labeling section. The ballot received many negatives, most objecting to the amputation hazard labeling requirement for all chairs, even chairs without an amputation hazard. ASTM redrafted the ballot and issued it again on February 28, 2017. The ballot closed on March 30, 2017, and still received negative votes. Another ballot item (also issued on February 28, 2017) contained clarifications to the locking mechanism requirements. This ballot item also received negative votes. The negatives will be reviewed at the next ASTM meeting in April 2017. ASTM held a subcommittee meeting on January 18, 2017, where participants, including CPSC staff, discussed many of these ballot issues.

Next Action Staff will attend and participate in the next subcommittee meeting scheduled for April 2017. Staff will also be preparing a briefing package for the final rule on children's folding chairs and stools. The package is expected to be submitted to the Commission before the end of FY 2017.

<i>Product</i>	Formaldehyde in MDF
<i>Staff Contact</i>	Carlson, Kent
<i>Voluntary Standard(s)</i>	<i>Medium Density Fiberboard Standard</i> (ANSI 208.2-2016)
<i>Mandatory Standard(s)</i>	16 C.F.R. § 1500.13 (d)
<i>Purpose</i>	To participate in the revision of the ANSI standard on formaldehyde emissions from composite wood products to ensure that the U.S. Environmental Protection Agency's (EPA) and the U.S. Department of Housing and Urban Development's (HUD) regulations are considered.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	In the second half of FY 2017, staff will work with the standard sponsor (Composite Panel Association) to look at potential changes to the standard to align with EPA and HUD regulations; staff will stay abreast of issues affecting the standard.

<i>Product</i>	Formaldehyde in Particleboard
<i>Staff Contact</i>	Carlson, Kent
<i>Voluntary Standard(s)</i>	<i>Particleboard Standard</i> (ANSI 208.1-2016)
<i>Mandatory Standard(s)</i>	16 C.F.R. § 1500.13(d)
<i>Purpose</i>	To participate in the revision of the ANSI standard on particleboard to ensure that the EPA's rules regarding formaldehyde emissions and HUD's regulations are considered in the standard.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	In the second half of FY 2017, staff will work with the standard sponsor (Composite Panel Association) to look at potential changes to the standard to align with EPA and HUD regulations; and staff will stay informed about issues affecting the standard.

<i>Product</i>	Frame Child Carriers
<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Frame Child Carriers (ASTM F2549-14a)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1230 <i>Safety Standard for Frame Child Carriers</i>
<i>Purpose</i>	To revise the ASTM standard to strengthen its provisions and keep the standard current with the federal mandatory standard for frame child carriers.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	Staff will review incident data and participate in the next ASTM subcommittee meeting when scheduled.

<i>Product</i>	Fuel Tanks (Leakage)
<i>Staff Contact</i>	Lim, Han
<i>Voluntary Standard(s)</i>	<i>Standard for Off-Road Ground-Supported Outdoor Power Equipment Gasoline Fuel Systems - Performance Specifications and Test Procedures (ANSI/OPEI B71.10-2013)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To provide technical assistance, as appropriate, to voluntary standard development activities concerning the ANSI/OPEI B71.10 standard, to improve safety.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	In the second half of FY 2017, staff will follow up with OPEI B71.10 committee regarding staff's recommendations to improve the current ANSI/OPEI B71.10-2013.

Product	Furniture Tip-Over
Staff Contact	Taylor, Michael
Voluntary Standard(s)	<i>Standard Safety Specification for Clothing Storage Units (ASTM F2057-14)</i> <i>Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s) (ASTM F3096-14)</i>
Mandatory Standard(s)	NA
Purpose	To provide technical support to the ASTM Furniture Safety Subcommittee (F15.42) to revise the voluntary safety standards for furniture to address tip-over incidents.
Activities	<p>Staff attended the ASTM subcommittee meeting held on November 10, 2016, and presented an overview of staff's September 2016 briefing package. Kids In Danger also made a presentation, which reviewed testing results from their work. Ikea's presentation outlined potential new testing methods to consider. Lastly, AHFA's presentation rebutted CPSC's briefing package. The subcommittee meeting also reviewed the results of two ballot items issued in May 2016. The subcommittee approved the ballot item to revise the preamble despite three negatives received that were found to be non-persuasive. The subcommittee did not approve a ballot item to revise the warning label and sent the item back to the task group for further work. A motion to ballot a revised minimum height requirement failed. The subcommittee decided to establish a new task group to examine different testing methods.</p> <p>Staff also attended several task group meetings during the reporting period. The task group to review the operational sliding length met on December 6, 2016 and March 8, 2017. As of the close of the reporting period, the task group is not ready to ballot any changes to the standard relating to operational sliding length or outstops.</p> <p>The task group for test methods met on February 2, 2017. The task group was charged with looking at different test methods for stability, yet the task group meeting spent most of the time discussing data and whether there was sufficient rationale to change the current test. The task group agreed to explore four different testing areas (load, multiple drawer, alternative surfaces, and top surface loads).</p> <p>The task group for age/weight also met on January 4, 2017 and March 21, 2017 to review updated data. The task group has not yet recommended any new ballot items to revise the weight and or age descriptors in the standard.</p> <p>The labeling/warnings task group met on October 6, 2016, November 29, 2016 February 8, 2017 and March 2, 2017. A ballot was issued January 30,</p>

2017, which contained revisions to the warnings and labeling language. The ballot received many negatives that had not been resolved as of the end of the reporting period.

Next Action Staff will continue to participate in the task groups established by the subcommittee and will attend the upcoming subcommittee meeting in April 2017. Staff will also prepare a briefing package for an advance notice of proposed rulemaking (ANPR), as outlined in the FY 2017 Operating Plan.

Product **Gas Ranges (Control Panels)**

Staff Contact Lim, Han

Voluntary Standard(s) *American National Standard for Household Cooking Gas Appliances (ANSI/CSA Z21.1-2016/CSA 1.1-2-16)*
Automatic Electrical Controls for Household and Similar Use – Part 2-5: Particular Requirements for Automatic Electrical Burner Control Systems (ANSI Z21.20-2014, CAN/CSA-C22.2 No. 50730-2-5-14)

Mandatory Standard(s) NA

Purpose To develop performance requirements for the voluntary standards to enhance the safe operation of gas ranges and to mitigate electronic control panel malfunctions.

Activities During the reporting period, staff participated in several teleconferences with two ANSI/CSA Z21.1/Z21.20 working groups (main working group and an electronics terminology sub-working group). The working groups examined revisions to the standards to address overheating electronic components, ovens turning on by themselves, and loss of temperature control. A proposal for gas range redundant line breaks was submitted to CSA. The two work groups made progress in developing proposals for the nichrome wire test, wet sponge test, and electronic controls terminology. An engineering test report by contractor Southwest Research Institute (SwRI) was posted on the CPSC website. This report contains test data from test scenarios designed to duplicate incidents of control panel malfunctions on three freestanding range/ovens of different brands.

Next Action Staff will continue to participate in the working groups and provide technical support on activities related to the ANSI/CSA Z21.1 and/or Z21.20 and other related standards and their revisions.

Product	Gasoline Containers (Child-Resistant Containers)
Staff Contact	Ayers, Scott
Voluntary Standard(s)	<i>Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use (ASTM F2517-15)</i>
Mandatory Standard(s)	16 C.F.R. part 1460 <i>Children's Gasoline Burn Prevention Act Regulation</i>
Purpose	To monitor and provide technical assistance, as appropriate, on voluntary standard development activities related to eliminating or reducing the poisoning of children from gasoline associated with portable fuel containers.
Activities	ASTM issued a ballot on November 3, 2016, to revise ASTM F2517-15. The balloted revision contained substantial changes. Staff received approval to vote from the Executive Director on November 17, 2016 and voted negative on the ballot and provided comments expressing concern over the revisions. Staff felt that some of the changes would reduce the child-resistance of portable gasoline containers, and thus, lessen the effectiveness of the standard. There were several other negative votes on the ballot. Accordingly, the revision did not move forward, as balloted. ASTM F15.10 met on December 16, 2016 and again on January 11, 2017. Staff participated in both meetings. Changes to the ballot were reviewed and discussed.
Next Action	ASTM is expected to re-ballot a revision to the standard, based on CPSC staff input and the subcommittee discussions.

Product	Gasoline Containers (Flame Mitigation)
Staff Contact	Scott Ayers
Voluntary Standard(s)	<i>Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use (ASTM F839-15)</i> <i>Standard Specification for Portable Gasoline Containers for Consumer Use (ASTM F852-08)</i> <i>Standard Specification for Portable Kerosene and Diesel Containers for Consumer Use (ASTM F976-08)</i> <i>Standard Specification for Spill Resistant Fueling Systems for Portable Fuel Containers for Consumer Use (ASTM F2234-08)</i> <i>Standard Specification for One Time Use Portable Emergency Fuel Containers (PEFC) for Use by Consumers (ASTM F2874-12)</i>

<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To provide technical assistance for developing performance requirements for flame-mitigation devices (FMDs) to be use by the ASTM 15.10 Subcommittee on the various standards for flammable liquid containers.
<i>Activities</i>	Staff participated in the ASTM F15.10 subcommittee meeting on January 11, 2017. Worcester Polytechnic Institute (WPI) is developing a written test protocol for FMDs on gasoline containers. Staff participated in the ASTM F15.10 subcommittee meeting on January 11, 2017, to discuss the draft test protocol. A follow-up subcommittee meeting was held on March 31, 2017, to continue discussing the WPI draft test protocol.
<i>Next Action</i>	Staff plans to attend future ASTM F15.10 subcommittee meetings and will continue to participate in the drafting of requirements for FMDs.
<i>Product</i>	Gates and Other Enclosures
<i>Staff Contact</i>	Torres, Carlos
<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 help revise the ASTM standard to eliminate or reduce hazards and form the basis of a federal standard for gates and enclosures.
<i>Activities</i>	<p>Staff sent a letter to the ASTM subcommittee chair on November 10, 2016, regarding the push-out test provisions in the standard. Subsequently, the push-out task group met on November 15, 2016, and discussed staff's letter. The task group decided to conduct round robin testing using four laboratories, including CPSC's National Product Testing and Evaluation Center. Staff shared the testing results with the subcommittee at the January 17, 2017 meeting. The results showed poor repeatability. Staff sent a letter to the subcommittee chairman on February 27, 2017, outlining several concerns with the test, as written in the standard and with the round robin testing.</p> <p>On March 28, 2017, the testing task group met to discuss the next steps needed to address the inconsistencies with the push-out test. The task group agreed that each test lab would take photos of their test fixture to be reviewed at the April subcommittee meeting to determine whether the specifications for the test fixture have resulted in discrepancies in the fixture.</p>

Next Action Staff will attend and participate at the next ASTM subcommittee meeting set for April 2017. In addition, the push-out task group will have an in-person meeting in May, hosted by the CPSC staff, to evaluate improvements in the current test procedure and explore international test methods. Staff expects to present the NPR briefing package to the Commission in FY 2017.

Product **Hand-Held Carriers**

Staff Contact Nesteruk, Hope

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

Mandatory Standard(s) 16 C.F.R. part 1225 *Safety Standard for Hand-Held Infant Carriers*

Purpose To revise the ASTM standard to strengthen its safety provisions and to maintain alignment of the voluntary standard with the federal mandatory standard for hand-held carriers.

Activities Staff attended and participated in the ASTM subcommittee meeting on hand-held carriers on January 18, 2017. Topics discussed included definitions for semi-rigid and non-rigid sides. In addition, the testing of non-rigid handles was discussed. A task group was established to look at incorporating the ad hoc warning language for F2050.

Next Action Staff will continue to provide technical assistance and incident data to the subcommittee, participate in task groups, and attend the next subcommittee meeting scheduled for April 2017.

Product **Helmets (Recreational)**

Staff Contact Hall, Ian

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

Mandatory Standard(s) NA

<i>Purpose</i>	To revise the ASTM standards and monitor NOCSAE standards to improve consumer safety.
<i>Activities</i>	<p>In November 2016, Ian Hall was approved by the Executive Director to serve in a leadership position for the ASTM task group on sensors. ASTM specifically requested Mr. Hall to serve as the task group chairman. The subcommittee met on November 17, 2016, and staff participated. The sensor task group reported that there are test labs that have volunteered to test sensors, but they still need to be obtained from the various manufacturers.</p> <p>Additionally, during the reporting period, staff participated in NOCSAE's winter meeting on January 27, 2017, where NOCSAE reviewed the status of various standards.</p>
<i>Next Action</i>	CPSC staff will participate in the next ASTM subcommittee meeting scheduled for May 2017, and will continue to monitor NOCSAE standards and attend future NOCSAE board meetings.
<i>Product</i>	High Chairs
<i>Staff Contact</i>	Marques, Stefanie
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for High Chairs (ASTM F404-17)</i>
<i>Mandatory Standard(s)</i>	<i>NPR Safety Standard for High Chairs (80 FR 3353 November 9, 2015)</i>
<i>Purpose</i>	To help revise the ASTM standard to eliminate or reduce hazards and form the basis for a federal standard for high chairs.
<i>Activities</i>	ASTM issued a ballot on December 1, 2016, containing a revision to the warnings and labeling section of the high chair standard. Staff had previously voted negative to the prior version. Although the newly balloted version addressed most of staff's concerns, there were a few outstanding issues. Staff sent a letter to the ASTM subcommittee chairman on December 28, 2016, which outlined the outstanding issues, but staff did not cast a vote. The ballot results were reviewed at the subcommittee meeting on January 17, 2017, and the negative votes were withdrawn. Consequently, the ballot item was approved. The revised standard was approved on February 1, 2017, and published on March 31, 2017.
<i>Next Action</i>	Staff will participate in the next ASTM subcommittee meeting scheduled for April 2017. Staff is continuing to work on the rulemaking project and intends to present the final rule briefing package to the Commission in FY 2017.

<i>Product</i>	Hook-On Chairs
<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Hook-On Chairs (ASTM F1235-15)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1233 <i>Safety Standard for Hook-On Chairs</i>
<i>Purpose</i>	To maintain alignment of the ASTM voluntary standard with the federal mandatory standard for hook-on chairs.
<i>Activities</i>	Although no task group meetings took place, the task group chairman for Passive Crotch Restraints circulated a draft proposal related to flexible (<i>i.e.</i> , fabric) passive crotch restraints that will be discussed at the April 2017 meeting.
<i>Next Action</i>	Staff will continue to monitor incident data and participate in the next subcommittee meeting scheduled for April 2017.

<i>Product</i>	Inclined Sleep Products
<i>Staff Contact</i>	Kish, Celestine
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Infant Inclined Sleep Products (ASTM F3118-17)</i>
<i>Mandatory Standard(s)</i>	<i>NPR Standard Consumer Safety Specification for Infant Inclined Sleep Products (82 FR 16963 (April 7, 2017)).</i>
<i>Purpose</i>	To help revise the ASTM standard to eliminate or reduce hazards and consider using the voluntary standard as the basis for a federal standard for inclined sleep products.
<i>Activities</i>	The latest revision of the standard, ASTM F3118-17, was approved on January 1, 2017, and published in March 2017. As part of the development of that standard, staff sent a letter to ASTM on November 22, 2016, indicating support of a ballot for the standard; staff also provided editorial suggestions. Staff contacted ASTM again on December 22, 2016, suggesting that the voluntary standard consider adding requirements pertaining to electrical hazards and also to revise the definition of “accessory,” to include hammock-

style accessories. During the reporting period, staff also attended a subcommittee meeting on January 18, 2017, as well as task group meetings on March 23 and 30, 2017.

On March 31, 2017, the Commission voted unanimously to approve publication in the *Federal Register*, as drafted, of the notice of proposed rulemaking that would incorporate by reference ASTM F3118-17, with one modification (pertaining to the revised “accessory” definition).

Next Action CPSC staff will participate in the next ASTM subcommittee meeting scheduled for April 2017.

Product **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 C.F.R. part 1215 *Safety Standard for Infant Bath Seats*

Purpose To maintain alignment of the ASTM voluntary standard with the federal mandatory standard for infant bath seats.

Activities On February 27, 2017, staff participated in a task group meeting regarding the test platform for the standard.. The standard defines the test platform as a bath tub with specified dimensions. These dimensions are specified in the text and on a figure contained in the standard. The task group determined that some of the dimensions on the figure were incorrect, and thus, the figure needs to be redrawn.

Next Action Staff is working with the test platform task group and will be preparing a new draft figure for subcommittee consideration. Staff will attend the next ASTM subcommittee meeting, anticipated to be held in fall 2017.

Product **Infant Bath Tubs**

Staff Contact Kish, Celestine

Voluntary Standard(s) *Consumer Safety Specification for Infant Bath Tubs* (ASTM F2670-17)

<i>Mandatory Standard(s)</i>	16 C.F.R. part 1234 <i>Safety Standard for Infant Bath Tubs</i>
<i>Purpose</i>	To help revise the ASTM standard to eliminate or reduce drowning hazards and to consider using the voluntary standard as the basis for a federal standard for infant tubs.
<i>Activities</i>	The ASTM standard was revised during the reporting period. The current version, ASTM F2670-17, was approved on January 1, 2017. Staff attended several task group and subcommittee meetings during the reporting period. Staff also sent a letter to the ASTM subcommittee chairman on November 22, 2016, providing support and a comment regarding a ballot item for warnings and labeling requirements. In addition, the final rule for infant bath tubs was approved by the Commission and published in March 2017.
<i>Next Action</i>	Staff will continue to provide technical assistance to the subcommittee and will participate in the next ASTM subcommittee meeting scheduled for April 2017.

Product **Infant Bouncers**

<i>Staff Contact</i>	Wanna-Nakamura, Suad
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Infant Bouncer Seats</i> (ASTM F2167-16)
<i>Mandatory Standard(s)</i>	NPR <i>Safety Standard for Infant Bouncer Seats</i> (80 FR 63168 (October 19, 2015))
<i>Purpose</i>	To help revise the ASTM standard to eliminate or reduce hazards and serve as the basis for a federal standard for infant bouncer seats.
<i>Activities</i>	Staff sent a letter to the subcommittee chair supporting the November 2016 ballot, but offered some editorial recommendations. Staff participated in a task group on warning labels held on December 12, 2016. During the meeting, the task group voted to ballot additional language for the warnings addressing weight limits on the product. Staff followed up that meeting with a letter to ASTM expressing concern about some of the other current labeling requirements dealing with warning label placement and suffocation label wording. The weight limit ballot was issued on January 30, 2017, and staff voted (after obtaining approval from the Executive Director) affirmative on the ballot. The ballot passed and the new language will be incorporated into the next revision of the standard.

Staff also participated in the subcommittee meeting for bouncers on January 18, 2017. During the meeting, some of the modifications included in the NPR were discussed. The subcommittee decided not to change anything related to the placement of the warning label. A task group was set up to look at the “fit snugly” warning language.

Next Action

Staff will continue to provide technical assistance to the subcommittee, participate in task groups, and attend the next subcommittee meetings scheduled for April 2017. Staff is continuing to work on the rulemaking project and intends to present the final rule briefing package to the Commission in FY 2017.

Product

Infant Slings (Sling Carriers)

Staff Contact

Nesteruk, Hope

Voluntary Standard(s)

Consumer Safety Specification for Sling Carriers (ASTM F2907-15)

Mandatory Standard(s)

16 C.F.R. part 1228 *Safety Standard for Sling Carriers*

Purpose

To help revise the ASTM standard to eliminate or reduce hazards and serve as the basis for a federal standard for sling carriers (sometimes called infant slings).

Activities

On December 21, 2016, staff submitted a briefing package recommending that the Commission publish the draft final rule that incorporates by reference the voluntary standard, ASTM F2907-15, with a modification to address concerns about the ease with which the required warning labels can be removed if attached by only one seam. The Commission approved the recommendation, and the final rule published on January 30, 2017. Staff also sent a letter to ASTM on November 30, 2016, recommending that ASTM consider adding requirements to address this issue. The issue was discussed at the subcommittee meeting held on January 17, 2017, and the subcommittee agreed to send out the modification to ballot. The ballot was issued on March 14, 2017, and had not closed at the end of the reporting period.

Next Action

Staff will participate in the next ASTM subcommittee meeting in April 2017.

<i>Product</i>	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 C.F.R. part 1223 <i>Safety Standard for Infant Swings</i>
<i>Purpose</i>	To revise the ASTM standard to strengthen its safety provisions and to maintain alignment of the voluntary standard with the federal mandatory standard for infant swings.
<i>Activities</i>	Staff participated in a task group meeting regarding hazards associated with straps that can fall underneath the swing seat on March 20, 2017. This task group was set up to address an incident where a child crawling on the floor encountered the straps and nearly strangled.
<i>Next Action</i>	Staff will continue to provide technical assistance to the subcommittee and participate in the next ASTM subcommittee meeting scheduled for April 2017.

<i>Product</i>	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 C.F.R. part 1216 <i>Safety Standard for Infant Walkers</i>
<i>Purpose</i>	To maintain alignment of the ASTM voluntary standard and the federal mandatory standard for infant walkers.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	Staff will provide incident data and technical assistance to the subcommittee and participate in the next subcommittee meeting, scheduled for April 2017.

<i>Product</i>	Liquid Laundry Packets
<i>Staff Contact</i>	Hanway, Steve
<i>Voluntary Standard(s)</i>	<i>Standard Safety Specification for Liquid Laundry Packets (ASTM F3159-15)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To assess the new ASTM standard to significantly reduce deaths and severity of injuries from exposure to concentrated liquid laundry detergent packets.
<i>Activities</i>	The incident data ASTM task group met several times during the reporting period, and staff was actively involved in the meetings. The full subcommittee met on November 30, 2016, and staff participated in a presentation of the data from task group findings.
<i>Next Action</i>	Staff will continue to be actively involved in the data task group and the subcommittee and provide technical assistance when needed.

<i>Product</i>	Mattresses
<i>Staff Contact</i>	Scott, Lisa
<i>Voluntary Standard(s)</i>	<i>Standard Test Method for Measuring the Heat Release Rate of Low Flammability Mattresses and Mattress Sets (ISO 12949)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1633 <i>Standard for the Flammability (Open Flame) of Mattress Sets</i> 16 C.F.R. part 1632 <i>Standard for the Flammability of Mattresses and Mattress Pads</i>
<i>Purpose</i>	To participate in any voluntary standards development activities related to mattresses, including the technical review of ISO 12949.
<i>Activities</i>	During the reporting period, staff prepared a draft request for information (RFI) regarding mattress materials for Commission consideration, which the Commission approved in January 2017. CPSC staff is requesting information on the materials, components, and methods of assembly currently being used to comply with both of the federal standards for mattresses. This information will be used to inform the staff of current industry practices and to determine whether the current testing protocols used in 16 C.F.R. § 1632.6 are adequate or need

revision. Staff reviewed the ISO standard as part of the periodic technical review process. The technical committee confirmed the standard for another period of 5 years.

Next Action There is no additional planned activity on the ISO standard at this time. Staff will be reviewing the information collected as a result of the RFI.

Product **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) NA

Purpose To monitor and provide technical assistance, as appropriate, to develop consumer product safety standards for nanotechnology.

Activities On November 14, 2016, staff attended and participated in two nanotechnology-related ASTM subcommittee meetings; Nano-Enabled Consumer Products and Physical and Chemical Characterization. Various issues were discussed, including the development of new guides to help characterize nanoparticles. Staff also participated in a working group meeting for ISO TC/229 and in meetings for the US TAG to ISO TC/229.

Next Action Staff will continue to be active in both ASTM subcommittee groups and with the US TAG to ISO TC/229. In particular, staff is expected to participate in two new work items both lead by the United States., ASTM E56.06, “New Standard Test Method for Detection of Total Silver in Textiles by ICP Analysis” and the proposed project, ISO/TC 229 WG 3/PG 29, “Evaluation of methods for assessing the release of nanomaterials from commercial, nanomaterial containing polymer composites.”

Product **National Electrical Code (NEC)**

Staff Contact Lee, Doug

<i>Voluntary Standard(s)</i>	<i>National Electrical Code, NFPA 70 (2017)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To revise the safety provisions of the NEC to reduce 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 participated in a meeting with ACBMA on October 19, 2016, regarding arc-fault circuit-interrupter (AFCI) installation requirements in the NEC. Future meetings are anticipated, but not yet scheduled.
<i>Next Action</i>	Staff will attend and participate in future meetings, when scheduled.

Product **Non-Integral Firearm Locking Devices**

<i>Staff Contact</i>	Brookman, Matt
<i>Voluntary Standard(s)</i>	<i>Standard Safety Specification for Non-Integral Firearm Locking Devices (ASTM F2369-16)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To review the voluntary standard and determine adequacy regarding the hazards associated with children defeating firearm locking devices.
<i>Activities</i>	During the reporting period, staff compiled incident data and began reviewing the data. Market research was performed to identify currently available products with new technologies, such as biometric and RFID interfaces.
<i>Next Action</i>	Upon completing the data review and standards analysis, staff intends to contact ASTM with our findings regarding the adequacy of the standard.

Product **Phthalates (Testing Methods)**

<i>Staff Contact</i>	Dreyfus, Matt
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<i>Voluntary Standard(s)</i>	<i>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)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To develop new test methods for determining the presence of low-level, regulated phthalates in poly (vinyl chloride) plastics.
<i>Activities</i>	Staff attended and participated in an ASTM D20.70 subcommittee meeting regarding test methods of phthalates held on November 14, 2016. Results from the round robin testing of the prototype phthalates were reviewed.
<i>Next Action</i>	Staff will participate in future ASTM meetings scheduled for April 2017.

Product **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>	NA
<i>Purpose</i>	To revise the ASTM standard to strengthen its safety provisions to address known hazards associated with home playground equipment.
<i>Activities</i>	Staff participated in the subcommittee meeting held on November 14, 2016. Older outstanding ballots were discussed and task groups reported. The latest version of the standard was approved on March 1, 2017, and the standard contains revisions relating to older balloted items. Three new ballot items regarding “S” hooks and labeling and instructional literature revisions were issued in January 2017. All three ballots received negative votes, which, as of the end of the reporting period, had not been resolved.
<i>Next Action</i>	Staff will participate in the next subcommittee meeting scheduled for May 2017 and will supply updated incident data, as requested by ASTM.

<i>Product</i>	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>	NA
<i>Purpose</i>	To revise the ASTM standard to strengthen its safety provisions to address the hazards associated with public playground equipment.
<i>Activities</i>	A new version of the standard was approved on February 15, 2017. Staff participated in the subcommittee meeting for public playground equipment held on November 15, 2016. On December 1, 2016, a ballot was issued to revise the installation requirements. The ballot received several negatives, and as of the end of the reporting period, the negatives had not been resolved.
<i>Next Action</i>	CPSC staff will participate in the next subcommittee meeting scheduled for May 2017, and will provide incident data, as requested by ASTM.

<i>Product</i>	Playground Surfacing
<i>Staff Contact</i>	Lee, Kevin
<i>Voluntary Standard(s)</i>	<i>Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment (ASTM F1292-13)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To assess, evaluate, or address the hazard patterns associated with playground surfacing on a national scale. Likewise, to evaluate the efficacy of any hazard gaps of ASTM F1292-13 on a national evaluation.
<i>Activities</i>	Staff attended the ASTM meeting on November 17, 2016, to provide an overview of the work being done on crumb rubber in conjunction with the Federal Research Action Plan, and the study on impact attenuation and maintenance. During the reporting period, staff managed two contracts: (1) to test public playground surfaces on a national scale, and (2) to gather experiences and perceptions from parents, caregivers, and recreational facility employees regarding toddlers' interaction with playground surfacing material.

<i>Next Action</i>	Staff will attend the next ASTM subcommittee meeting scheduled for May 2017, and provide incident data.
<i>Product</i>	Pools, Portable Unprotected (Child Drowning)
<i>Staff Contact</i>	Bathalon, Susan
<i>Voluntary Standard(s)</i>	<i>Standard Specification for Aboveground Portable Pools for Residential Use (ASTM F2666-16)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To develop requirements in the ASTM standard to mitigate residential drowning in portable pool products.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	Staff will review incident data and then contact ASTM regarding our findings.

<i>Product</i>	Portable Bed Rails (Children's)
<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Portable Bed Rails (ASTM F2085-12)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1224 <i>Safety Standard for Portable Bed Rails</i>
<i>Purpose</i>	To maintain alignment of the ASTM voluntary standard with the federal mandatory standard for portable bed rails for children.
<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
<i>Next Action</i>	Staff will review incident data and participate in the next ASTM subcommittee meeting, when it is scheduled.

<i>Product</i>	Portable Fireplaces (Firepots and Unvented Alcohol Appliances)
<i>Staff Contact</i>	Ayers, Scott
<i>Voluntary Standard(s)</i>	ASTM (potential new standard in development)
<i>Mandatory Standard(s)</i>	ANPR published in December 2011
<i>Purpose</i>	To help develop a voluntary safety standard for portable, unvented liquid-fuel burning appliances.
<i>Activities</i>	Staff wrote a letter to UL on October 13, 2016, requesting that UL STP 1370 consider the recent proposal for unvented liquid and gel fuel-burning portable devices. In response, staff was informed that UL no longer wanted to pursue the proposal. The working group approached ASTM about adding the existing working group to the F15 Consumer Products committee. During a teleconference on January 18, 2017, UL representatives provided their support of the proposal being developed through ASTM. On February 24, 2017, the working group met and discussed the ASTM process and the suggestion was made to be part of the F15.72 subcommittee on torch fuels.
<i>Next Action</i>	In April 2017, staff sent a letter to ASTM requesting a new activity on portable fireplaces. Staff will continue to work with the ASTM task group to develop the new standard.

<i>Product</i>	Portable Generators
<i>Staff Contact</i>	Buyer, Janet
<i>Voluntary Standard(s)</i>	<i>Safety and Performance of Portable Generators (ANSI/PGMA G300-2015)</i> <i>Standard for Portable Engine-Generator Assemblies (UL 2201)</i>
<i>Mandatory Standard(s)</i>	NPR published on November 21, 2016 (81 FR 83556)
<i>Purpose</i>	To develop a national consensus safety standard to reduce carbon monoxide (CO) deaths and serious injuries associated with portable generators.
<i>Activity</i>	On November 21, 2016, an NPR for portable generators published in the <i>Federal Register</i> , which included a deadline of February 6, 2017, for a 75-day period to submit written comments on the NPR. The PGMA sent a letter

requesting a 75-day extension on the comment period, and the Commission voted 4-1 to approve extending the comment period for 75 days. In February 2017, the PGMA requested another 75-day extension on the deadline for written comments on the NPR and a 90-day postponement on the date for the public hearing. The Commission voted 3-2 to deny the requests. On March 8, 2017, twelve stakeholders presented oral comments to the Commission on the NPR.

In November 2016, staff obtained approval to vote on both UL 2201 and ANSI/PGMA G300-2015. On February 28, 2017, staff wrote a letter to UL in support of the standard and included recommended changes to consider. UL issued a ballot on March 23, 2017, and staff voted affirmative with comment, using the February 28 letter as the basis of the comment.

Staff also participated in UL task group meetings on December 14, 2016, and January 4, 2017. Staff also met with PGMA representatives on February 15, 2017.

Next Action Staff will host, attend, and participate in the PGMA 2017 Technical Summit, to be held in April 2017, and staff will be active in the ongoing rulemaking project.

Product **Power Equipment (formerly 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) ANPR published in October 2011

Purpose To revise the standard to include performance requirements to reduce or mitigate blade-contact injuries from table saws.

Activities Staff met with UL on October 25, 2016, to review the votes and comments from the last ballot. The Active Injury Mitigation System (AIMS) requirements have gone out to ballot twice and both times failed to obtain a consensus.

During the reporting period, staff prepared a briefing package recommending an NPR for the AIMS requirements and briefed the Commission on March 23, 2017.

<i>Next Action</i>	On April 27, 2017 the Commission voted to approve publication of the NPR with added motions and amendments. CPSC staff will continue to provide technical assistance to UL toward the adoption of AIMS requirements for table saws.
<i>Product</i>	Recreational Off-Road Vehicles (ROVs)
<i>Staff Contact</i>	Paul, Caroleene
<i>Voluntary Standard(s)</i>	<i>Recreational Off-Highway Vehicles Association (ANSI/ROHVA 1-2016) and American National Standard for Multipurpose Off-Highway Utility Vehicles (ANSI/OPEI B71.9-2016)</i>
<i>Mandatory Standard(s)</i>	NPR <i>Recreational Off-Road Vehicles</i> (79 FR 68964 November 19, 2014))
<i>Purpose</i>	To revise the standards to include effective safety performance requirements for lateral stability, vehicle steering, and occupant protection performance.
<i>Activities</i>	Staff attended a meeting with ROHVA to discuss the progress in developing the ROV tilt table hang tag. ROHVA contracted with Applied Safety and Ergonomics to develop the tilt table hang tag based on the requirements in ANSI/ROHVA 1-2016. Staff also prepared a briefing package with a recommendation to terminate rulemaking on ROVs. On January 25, 2017, the Commission voted 3-2, not to terminate the open rulemaking. On February 17, 2017, staff sent a letter to ROHVA regarding the hang tag. In the letter, staff recommended that the hang tag include additional messaging to help consumers interpret the tilt table angle.
<i>Next Action</i>	Staff intends to continue working with ROHVA and focus groups toward creating effective messaging for consumers regarding the hang tag.

<i>Product</i>	Safety Locks and Other Household Child-Inaccessibility Devices
<i>Staff Contact</i>	Lee, Kevin
<i>Voluntary Standard(s)</i>	None at this time

<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To analyze the data associated with safety locks and child-inaccessibility devices and make recommendations, as appropriate, for the development of a new voluntary standard.
<i>Activities</i>	Staff is reviewing the incident data associated with hazards for safety locks and other child-inaccessible device.
<i>Next Action</i>	Staff intends to complete the data review and contact ASTM regarding the development of a safety standard for these products.
<i>Product</i>	Self-Balancing Scooters
<i>Staff Contact</i>	Amodeo, Vince
<i>Voluntary Standard(s)</i>	<i>Electrical Systems for Self-Balancing Scooters (UL 2272 1st Ed.)</i> <i>Recreational Powered Scooters and Pocket Bikes (ASTM F2641-15)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To develop requirements to address the electrical and mechanical hazards associated with self-balancing scooters.
<i>Activities</i>	<p>The ASTM F15.58 subcommittee (Powered Scooters and Skateboards) held subcommittee and tasks group meetings on October 6, 2016, November 29, 2016, December 29, 2016, and January 12, 2017, to discuss electrical and mechanical issues related to self-balancing scooter fall hazards to develop a new voluntary standard for self-balancing scooters (hoverboards). The ASTM subcommittee issued a ballot dated March 16, 2017 (closing April 17, 2017). The ballot contains the draft standard for self-balancing scooters.</p> <p>The 1st edition of the UL standard 2272 was approved on November 21, 2016. The standard was developed as a voluntary consensus standard based on UL's Outline of Investigation that was developed in 2016. On December 20, 2016, staff wrote a letter to UL commenting on the proposed effective date changes for UL 2272. UL proposed a 24-month effective date, and staff suggested that a 6-month effective date would be adequate, considering the significant hazards associated with the electrical aspects of these products.</p>
<i>Next Action</i>	Staff intends to provide comments on the F15.58 subcommittee ballot and will continue to work with UL and ASTM in the development of new requirements/standards to address the hazards associated with self-balancing scooters.

Product	Smoke Alarms
Staff Contact	Lee, Arthur
Voluntary Standard(s)	<i>Standard for Single and Multiple Station Smoke Alarms (UL 217)</i> <i>National Fire Alarm and Signaling Code (NFPA 72)</i>
Mandatory Standard(s)	NA
Purpose	To revise the UL and the NFPA standards to improve consumer safety associated with smoke alarms.
Activities	In November 2016, the 8 th Edition of UL 217 was approved and published. On February 16, 2017, CPSC hosted a Workshop entitled, “Survey on Usage and Functionality of Smoke Alarms and CO Alarms in Households.” CPSC staff intends to conduct a national census (or representative in-home survey) on the prevalence, operability, and characteristics of smoke alarms and carbon monoxide alarms. The workshop was held to gather input and feedback from stakeholder groups for this planned survey. The feedback gathered will help develop the questions and methodology of the survey, as well as how the survey is communicated (<i>i.e.</i> , what are the really important pieces of data that need to be gathered and included in the overall data set).
Next Action	Staff intends to use the information gained during the workshop and continue working with UL regarding the revision and improvement of the standard and will participate in the NFPA 72 technical group to develop the next edition of the standard.

Product	Soft Infant and Toddler Carriers
Staff Contact	Amodeo, Vince
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Soft Infant Carriers (ASTM F2236-16a)</i>
Mandatory Standard(s)	16 C.F.R. part 1226 <i>Safety Standard for Soft Infant and Toddler Carriers</i>
Purpose	To revise the ASTM standard to strengthen its safety provisions and keep it current with the federal mandatory standard for soft infant and toddler carriers.

Activities	No known voluntary standards development activity occurred during the reporting period.
Next Action	CPSC staff will review incident data and attend and participate in the next subcommittee meeting when scheduled.
Product	Spray Polyurethane Foam Insulation
Staff Contact	Biggs, Melanie
Voluntary Standard(s)	<p><i>Test Method for Estimating Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Using Micro-Scale Environmental Test Chambers</i> (ASTM WK40293 – under development)</p> <p><i>New Standard Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-Scale Spray Booth</i> (ASTM WK51588 – under development)</p> <p><i>New Standard Application of Indoor Emission and Fate Modeling for Spray Polyurethane Foam (SPF) Insulation</i> (ASTM WK52052 – under development)</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>New Guide for Selecting Emission Testing Methods for Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs) from Dry Sources</i> (ASTM WK57802 – under development)</p>
Mandatory Standard(s)	NA
Purpose	To provide technical support to develop voluntary standards to address chemical emissions from spray polyurethane foam (SPF) insulation to eliminate or adequately reduce toxic off-gassing.
Activities	This voluntary standard development project focused on work items under the ASTM Air Quality/Indoor Air Subcommittee (ASTM D22.05) to measure or model emissions from these SPF products using micro-scale environmental test chambers, a large-scale spray booth, or computer models. During the reporting period, staff attended subcommittee meetings for D22.05 on October 25, 2016, and March 2, 2017. Parameters relating to the spray foam standards under development were discussed.
Next Action	Staff will continue to provide technical support to the subcommittee and attend/participate in the next scheduled meeting in April.

<i>Product</i>	Stationary Activity Centers
<i>Staff Contact</i>	Lee, Kevin
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Stationary Activity Centers (ASTM F2012-16)</i>
<i>Mandatory Standard(s)</i>	Under development in accordance with Section 104 of the CPSIA
<i>Purpose</i>	To help revise the ASTM standard to eliminate or reduce hazards and serve as the basis for a federal standard for stationary activity centers.
<i>Activities</i>	ASTM approved a new definition for closed-base stationary activity centers but the revision is being held pending resolution of a ballot for spring testing. Staff participated in the subcommittee held on January 18, 2017 and a task group meeting on March 22, 2017. At the task group meeting, the addition of tip angle requirements to the spring redundancy test was discussed and agreed upon.
<i>Next Action</i>	Staff will continue to provide technical assistance to the subcommittee and task group and will participate in the next subcommittee meeting scheduled for April 2017.

<i>Product</i>	Strollers
<i>Staff Contact</i>	Talcott, Kristen
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Carriages and Strollers (ASTM F833-15)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1227 <i>Safety Standard for Carriages and Strollers</i>
<i>Purpose</i>	To revise the ASTM standard to strengthen its safety provisions and to maintain alignment between the voluntary standard and the federal mandatory standard for carriages and strollers.
<i>Activities</i>	Staff participated in task group meetings pertaining to the choking hazard associated with foam grab bars and other accessories on strollers. On January 17, 2017, staff participated in the subcommittee meeting on strollers. Following the task group and subcommittee meetings, a proposed revision to ASTM F833 addressing the issue of children biting/chewing on accessible

foam on tray/grab bars was balloted in February 2017. The ballot closed on March 30, and the results were not known at the end of the reporting period.

Next Action Staff will participate in the next ASTM subcommittee meeting scheduled for April 2017.

Product **Swimming Pools and Spas (Drain Covers)**

Staff Contact Sharpless, Perry

Voluntary Standard(s) *American National Standard for Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs (ANSI/APSP-16-2011).*

Mandatory Standard(s) 16 C.F.R. part 1450 *Virginia Graeme Baker Pool and Spa Safety Act*

Purpose To monitor and provide technical support to develop voluntary safety standards to reduce deaths and injuries associated with swimming pools, spas, wading pools, and hot tubs. An additional purpose is to provide technical support to voluntary safety standards activities associated with the Virginia Graeme Baker Pool and Spa Safety Act (VGBA), which deals with entrapment hazards in swimming pools, wading pools, spas, and hot tubs available to the general public, as well as products such as pool drain covers.

Activities Staff attended an APSP technical committee meeting on November 1, 2016. Potential revisions to APSP 16 were reviewed and balloted. APSP submitted the revised version to ANSI for consideration as an American National Standard. It is anticipated that the public review period will conclude in June 2017.

Next Action Staff intends to provide comments on the revision of APSP-16 during the comment period.

Product **Swimming Pools and Spas (Vacuum Relief Systems)**

Staff Contact Sharpless, Perry

Voluntary Standard(s) *Manufactured Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub, and Wading Pool Suction Systems (ASME A112.19.17)*

<i>Mandatory Standard(s)</i>	16 C.F.R. part 1450 <i>Virginia Graeme Baker Pool and Spa Safety Act</i>
<i>Purpose</i>	To monitor and provide technical support to develop voluntary safety standards to reduce deaths and injuries associated with safety vacuum release systems (SVRS) for swimming pools, spas, wading pools, and hot tubs.
<i>Activities</i>	The current voluntary standard is under the development of ASME. APSP intends to take over the administrative duties for this standard, following approval of APSP-16. A new committee, APSP-17 will be formed to oversee the transition and further development of the standard. CPSC staff has been asked if they are available to chair the new committee.
<i>Next Action</i>	Staff will review data associated with this hazard, and prepare for the transition of the voluntary standard from ASME to APSP. A kick-off meeting is anticipated for fall 2017.

<i>Product</i>	Tents
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<i>Staff Contact</i>	Tenney, Allyson
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<i>Voluntary Standard(s)</i>	ASTM (Under development, not yet published)
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<i>Mandatory Standard(s)</i>	NA
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<i>Purpose</i>	To assist in developing an ASTM voluntary standard that will address the hazards associated with tent flammability.
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<i>Activities</i>	No known voluntary standards development activity occurred during the reporting period.
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<i>Next Action</i>	Staff will participate in future subcommittee and task group meetings in FY 2017
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<i>Product</i>	Toddler Beds
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<i>Staff Contact</i>	Kish, Celestine
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<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Toddler Beds</i> (ASTM F1821-16)
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<i>Mandatory Standard(s)</i>	16 C.F.R. part 1217 <i>Safety Standard for Toddler Beds</i>
<i>Purpose</i>	To revise the ASTM standard to harmonize with the federal mandatory standard for toddler beds.
<i>Activities</i>	On December 8, 2016, ASTM notified the CPSC of ASTM's approval and publication of ASTM F1821-16 in a standard approved on October 1, 2016, ASTM F1821-16. Staff recommended that the Commission publish a final rule referencing F1821-16 as the new safety standard for toddler beds. The direct final rule was published on February 22, 2017.
<i>Next Action</i>	Staff will continue to provide technical assistance to the subcommittee and participate in the next subcommittee meeting scheduled for April 2017.
<i>Product</i>	Torch Fuel and Lamp Oil
<i>Staff Contact</i>	White, Sharon
<i>Voluntary Standard(s)</i>	ASTM Subcommittee F15.72 – (Under development)- <i>New Specification for Torch Fuel and Lamp Oil Packaging</i> (and other related standards)
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To develop a new ASTM safety standard to address the hazards to children associated with torch fuel, lamp oil, and their containers.
<i>Activities</i>	During the reporting period, staff attended and participated in two task group teleconferences, on February 16, 2017 and March 16, 2017. During the February meeting, staff provided information from CPSC's Office of Compliance regarding container shape and similarities with food, drug or cosmetic containers. Based on this information, the task group decided not to make language changes to this section of the draft standard. Also during the meetings, label durability and other labeling issues were discussed.
<i>Next Action</i>	Staff will participate in the next ASTM Torch Fuel and Lamp Oil task group and subcommittee meetings and will provide comments to the upcoming expected ballot, as warranted.

Product	Toys
Staff Contact	Mordecai, Ben
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Toy Safety (ASTM F963-16)</i>
Mandatory Standard(s)	16 C.F.R. 1250 <i>Safety Standard for Toys</i>
Purpose	To revise the ASTM standard to strengthen its safety provisions and to ensure that the federal standard and the ASTM standard are aligned.
Activities	The recently revised ASTM standard was published in October 2016. On November 1, 2016, ASTM officially notified the CPSC of the revised standard. Staff prepared a comprehensive briefing package with the recommendation to accept F963-16 as the new federal standard for toys. The commission voted in favor of staff's recommendation, and on February 2, 2017, the Direct Final Rule (16 C.F.R. part 1250) was published in the <i>Federal Register</i> . ASTM issued a ballot item on February 28, 2017, to correct an omission from the standard. Staff sent a letter to ASTM in March, stating support and offering some editorial suggestions. The ballot closed with one negative vote that was later withdrawn.
Next Action	A new revision of the standard, ASTM F963-17 is expected to be published during Summer 2017. Staff will participate in future task group meetings and the next subcommittee meeting scheduled for June 2017.

Product	Upholstered Furniture
Staff Contact	Lock, Andrew
Voluntary Standard(s)	<i>Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture (ASTM E1353-16)</i> <i>Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture (NFPA 260)</i> <i>Draft Standard Methods of Tests for Evaluating Fire and Ignition Resistance of Upholstered Furniture Using a Flaming Ignition Source (NFPA 277)</i>
Mandatory Standard(s)	NA
Purpose	To revise the ASTM and NFPA standards and to participate on the NFPA Fire Test Committee Task Group to develop a new open-flame standard.

Activities Staff attended and participated in several NFPA meetings during the reporting period. The main task group on developing new requirements for NFPA 277 met on October 28, 2016 and January 12, 2017. The secondary task group met on February 28, 2017. In addition, NFPA's technical committee on Fire Tests met on March 21, 2017. NFPA 277 and proposed changes to NFPA 260 were discussed. Staff also met with stakeholders on January 24, 2017, where new furniture flammability research was presented to CPSC staff.

In addition, staff attended the Fire and Materials Conference held February 6-8, 2017. At the conference, staff presented information on recent test work dealing with furniture flammability.

Next Action CPSC staff will participate in ASTM E05 Committee meetings and NFPA Fire Committee Test Task Group meetings and will continue to work toward developing new provisions and revising existing provisions.

Product **Vented Gas Heating Appliances (CO Sensors)
(Formerly Furnaces)**

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) NA

Purpose To revise the ANSI standards for vented gas heating appliances to include requirements to address carbon monoxide risks associated with failure modes, such as disconnected vents and partially blocked vents.

Activities Staff met with CSA staff on November 30, 2016, to provide background information on how the agency conducts cost/benefit analysis. CSA was interested in potentially conducting cost/benefit analysis on using CO/Combustion sensors in gas appliances. Staff also met with the ANSI/CSA Cross-Functional Working Group on Carbon Monoxide Detector Sensors in Gas Appliances on February 9 and March 2, 2017. During the reporting period, CPSC staff provided incident data (redacted IDIs) and proposed recommendations for improvements to the standards.

Next Action CPSC staff plans to participate in upcoming Cross-Functional Working Group meetings and other 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).

<i>Product</i>	Washing Machines, Top Loading
<i>Staff Contact</i>	Kim, Yeon
<i>Voluntary Standard(s)</i>	<i>Electric Clothes Washing Machines and Extractors</i> (UL 2157)
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	To revise the standard to reduce the hazards associated with top-loading washing machines.
<i>Activities</i>	On December 19, 2016, staff sent a letter to UL asking that STP 2157 on Clothes Washing Machines form a task group to assess the ability of washing machines to withstand high-speed spin cycles under unbalanced load conditions.
<i>Next Action</i>	Staff intends to attend and participate in future meetings for STP 2157.
<i>Product</i>	Window Coverings (Blind Cords)
<i>Staff Contact</i>	Balci-Sinha, Rana
<i>Voluntary Standard(s)</i>	<i>Standard for Safety of Corded Window Covering Products</i> (ANSI/WCMA A100.1)
<i>Mandatory Standard(s)</i>	ANPR published in January 2015.
<i>Purpose</i>	To revise the standard to reduce strangulation hazards associated with window covering cords.
<i>Activities</i>	There was considerable activity on this standard during the reporting period. Staff attended and participated in WCMA steering committee meetings held several times, and also participated on stock/custom definition and warning labeling task groups. Multiple draft revisions to the standard have been

circulated for comments. CPSC staff provided comments in a January 24, 2017 letter to the WCMA.

WCMA sent a letter to then-Chairman Elliot Kaye on January 30, 2017, commenting about incident data and issues raised in staff's January 24 letter. Staff replied to WCMA on February 7, 2017, to clarify information about incident data.

Next Action WCMA will send out a canvas ballot in spring 2017. Staff will be reviewing and commenting on the canvas ballot. Staff will also be developing and preparing a briefing package for an NPR scheduled for FY 2017.

Product **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) NA

Purpose To review the voluntary standard and determine adequacy with regard to the hazards associated with children accessing firearms in security containers.

Activities During the reporting period, staff compiled incident data and began reviewing the data. Market research was performed to identify currently available products with new technologies, such as biometric and RFID interfaces. Staff is developing a test plan to evaluate these new technologies and to determine whether the standard adequately addresses them.

Next Action Staff will perform tests from the standard that are relevant to new technologies. Upon completing the data review and testing, staff intends to contact ASTM with our findings regarding the adequacy of the standard.