



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

Memorandum

Date: November 16, 2016

TO: The Commission
Todd A. Stevenson, Secretary

THROUGH: Mary T. Boyle, General Counsel
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George A. Borlase, Ph.D., AED Hazard Identification and Reduction

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

SUBJECT: Voluntary Standards Activities FY 2016 Annual Report

Attached is U.S. Consumer Product Safety Commission staff's Voluntary Standards Activities FY 2016 Annual Report (October 1, 2015 – September 30, 2016), 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 2016 ANNUAL REPORT
(October 1, 2015–September 30, 2016)**

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

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

Voluntary Standards Activities October 1, 2015–September 30, 2016

SUMMARY

Forty new, revised, or reaffirmed¹ voluntary safety standards, for which U.S. Consumer Product Safety Commission (CPSC) staff provided technical support were approved during the time period of October 1, 2015 to September 30, 2016. These safety standards address: **bassinets/cradles, bicycles (6), candles (2), changing tables, children’s chairs and stools, clothes dryers, cribs (non-full-size /play yards), formaldehyde in MDF, formaldehyde in particleboard, garage door operators, gas ranges (controls), gates and enclosures, hand held infant carriers, helmets (recreational) (2), high chairs, infant inclined sleepers, infant bath tubs, infant bouncers, infant sling carriers, infant swings, nanotechnology, the national electric code, phthalates (testing methods), portable fireplaces, power equipment (table saws), recreational off-road vehicles (2), smoke alarms, soft infant and toddler carriers, stationary activity centers, strollers, toys and upholstered furniture.**

From October 1, 2015 to September 30, 2016, CPSC staff provided technical support or was otherwise engaged in the development of voluntary safety standards for 71 different products, which are described in this report.

Voluntary standards development activities are handled primarily by three standards development/coordinating organizations: ASTM International (ASTM), the American National Standards Institute (ANSI), and Underwriters Laboratories Inc. (UL). The standards that are developed using the procedures of these groups provide safety provisions addressing potential hazards associated with consumer products found in homes, schools, and recreation areas.

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

During the reporting period, CPSC staff’s involvement in voluntary standards focused considerably 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

¹ Approved the existing standard without any changes

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 and toddler products: children’s folding chairs; changing tables; infant bouncers; infant bathtubs; bed rails; and infant slings (16 C.F.R. part 1130).

ASTM subcommittees develop and maintain voluntary safety standards for durable infant and 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 and 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 and toddler product. All Section 104 rulemaking goes through a notice of proposed rulemaking (NPR) stage, followed by issuance of a final rule. Following Commission’s promulgation of 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, NPRs for high chairs, infant bouncers, changing tables and children’s folding chairs and stools were published. The Commission also approved and published the final rule for hook-on-chairs during the reporting period. Lastly, the final rule for strollers and carriages was revised during the time period, to refer to the recently revised voluntary standard.

THE “V-STAR” REPORT

This document contains the current Voluntary Standards Tracking and Access Report (“V-STAR”), which shows, among other things, product or product areas associated with voluntary standards work, the name of the CPSC employee leading each activity, the name(s) and designation(s) of the standards associated with the product, the purpose of staff’s involvement, the reporting period activity, and staff’s next actions associated with the voluntary standard. The Office of Hazard Identification and Reduction compiled information from CPSC staff, which is reflected in this report. The V-STAR report is issued bi-annually: (1) a mid-year report, covering the period from October 1 through March 31, and (2) an annual report of the CPSC fiscal year, which covers the period from October 1 to September 30.

To provide more complete information, the 2016 annual V-STAR report includes the name and designation of the voluntary standard(s) for each product, as well as any associated mandatory standard or regulation. The latter information has not been provided in previous reports.

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.

AFSL	The American Fireworks Standards Laboratory
AHAM	Association of Home Appliance Manufacturers
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	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
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.
• STP – Standard Technical Panel

WCMA Window Covering Manufacturers Association

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CPSC Staff Voluntary Standards Activities
FY 2016 Mid-Year Report
(October 1, 2015–March 31, 2016)

<i>Product</i>	Architectural Glazing
<i>Staff Contact</i>	Baker, Brian
<i>Voluntary Standard(s)</i>	<i>American National Standard for Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test (ANSI Z97.1-2015)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1201 <i>Safety Standard for Architectural Glazing Materials</i>
<i>Purpose</i>	To improve the safety of glazing materials used in buildings by providing technical support to develop the standard.
<i>Activities</i>	Before the reporting period, the CPSC granted petition CP12-3, which requested that the Commission amend 16 C.F.R. § 1201. During the reporting period, staff developed and submitted a final rule briefing package to the Commission, recommending amending 16 C.F.R. § 1201.4 to include the updated testing protocol found in ANSI Z97.1-2015. The Commission voted to accept staff’s recommendation and the final rule published in the <i>Federal Register</i> on March 23, 2016 (81 Fed. Reg. 15427).
<i>Next Action</i>	The final rule’s effective date is April 22, 2016. No activity is anticipated for FY 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/SIVA 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.

Activities On March 10, 2016, CPSC staff attended a meeting with SVIA regarding ANSI/SVIA 1-2010. At the meeting, staff's recommendations (sent in a letter dated May 1, 2015) were reviewed and discussed. SVIA announced that the revision process for the standard will begin soon. The technical advisory panel (TAP) will consider the recommendations outlined in staff's letter as part of the revisions. On September 13, 2016, staff met with representatives of SVIA and SEA Limited (SEA) to discuss static and dynamic testing of ATVs as performed by SEA. Preliminary data were presented. A full report on the test results will be made available to the public at a later date.

Next Action CPSC staff will continue to provide technical assistance and guidance to SVIA for the revision of ANSI/SVIA 1-2010. The next meeting is scheduled for 1st quarter FY 2017.

Product **Baby Monitors**

Staff Contact Lee, Doug

Voluntary Standard(s) *Consumer Safety Specification for Baby Monitors (ASTM F2951-13)*

Mandatory Standard(s) NA

Purpose To revise the standard to address strangulation and fire hazards associated with the use of baby monitors.

Activities During the reporting period, staff compiled incident data pertaining to baby monitors and provided it to the ASTM subcommittee for future review and analysis.

Next Action Staff will participate in future subcommittee meetings and help with the review and analysis of the incident data. Staff will also be working to help ASTM adopt ASTM F963-16 battery safety requirements into ASTM F2951.

Product **Bassinets/Cradles**

Staff Contact Kish, Celestine

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

Mandatory Standard(s)

16 C.F.R. part 1218 *Safety Standard for Bassinets and Cradles*

Purpose

To revise the ASTM standard to strengthen its safety provisions and to maintain alignment between the voluntary standard and the federal mandatory standard for bassinets and cradles.

Activities

The current version of the standard (ASTM F2194-16e¹) was approved in April 2016, and published in June 2016. The 2016 version contains a new requirement that is substantially the same as the removable bassinet bed stability requirement included in 16 C.F.R. part 1218. At this time, ASTM F2194-16e¹ contains similar requirements to 16 C.F.R. part 1218, but does not contain the scope section note, that outlines how to determine which standards the combination products fall into.

During the reporting period, staff attended and participated in subcommittee meetings that occurred on October 5, 2015, January 14, 2016, April 13, 2016 and September 26, 2016. In addition, staff attended and participated in various task group meetings to look at expanding the scope of the voluntary standard to include low-to-the-ground bassinets and to address hazards associated with “baby box” products. Staff also compiled incident data and provided it to the subcommittee for future review and analysis.

Next Action

Staff will participate in the next ASTM subcommittee meeting and will assist in the review and analysis of incident data associated with bassinets.

Product

Batteries (Button, Coin Cell, Lithium, Toy, and Electronic Devices)

Staff Contact

Lee, Doug

Voluntary Standard(s)

Standard for Safety for Products that Incorporate Button or Coin Cell Batteries Using Lithium Technologies, (UL 4200A);
Standard for Rechargeable Batteries for Mobile Telephones (IEEE 1725); *Standard for Rechargeable Batteries for Multi-Cell Computing (IEEE 1625);*
Standard for Safety for Lithium Batteries (UL 1642);
Safety Standards for Primary, Secondary and Lithium Batteries (ANSI/NEMA C18);
Standard for Household and Commercial Batteries (UL 2054);
Standard for Audio, Video, and Similar Electronic Apparatus–Safety Requirements (UL 60065);
Outline of Investigation for Safety of Power Banks (UL 2056);

Mandatory Standard(s)

None for batteries exclusively

Purpose To provide technical support toward the development and revision of battery safety standards and support the development of 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 See activity reports for *Self-Balancing Scooters* and *Toys* for activity relating to those specific products. This report will cover other battery related work.

On October 7, 2015, February 10, 2016 and June 16, 2016, staff participated in ANSI C18 subcommittee meetings and teleconferences for battery safety (ANSI C18-5). The subcommittee is developing labeling, pictograms, and packaging requirements for coin cell ingestion hazard mitigation and requirements for other safety hazards.

On March 28, 2016 staff participated in a teleconference of the UL button battery task group. The task group is developing requirements for button cells other than lithium.

On May 17, 2016 staff participated in a teleconference of the button battery task force. Included in the task force are medical doctors, battery manufacturers, NEMA staff, testing laboratories, and safety advocates. The task force is looking for voluntary standards, educational messages, and medical and technical advances to help reduce the incidence of button battery ingestion injuries in children.

The first edition of UL4200A was published on February 10, 2015. UL 4200A has specific accessibility and warning requirements to prevent children from accessing and ingesting coin cells from product enclosures. During the next year, the UL 4200A requirements are expected to be balloted for inclusion in UL standards for all products that contain lithium coin cells.

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 continue to monitor all other battery standards to address fire and other hazards with batteries.

Product **Bed Rails (Adult)**

Staff Contact Taylor, Michael

Voluntary Standard(s) ASTM - Not yet published

Mandatory Standard(s) NA

Purpose To develop an ASTM safety standard for adult portable bed rails to reduce the risk of

injury or death.

Activities

In late January 2016, ASTM balloted the draft new standard. The ballot closed on February 26, 2016, and received several negative votes covering a variety of issues. Staff participated in the April 6, 2016 meeting where the results from the ballot were discussed. There were several negative votes some of which required editing and further review. The draft standard was balloted again in late July 2016 and also received several negatives. The subcommittee met on September 22, 2016 to review and resolve the negatives.

Next Action

Staff will provide input and information to the subcommittee in an effort to help prepare the next draft for balloting.

Product

Bedside Sleepers

Staff Contact

Kish, Celestine

Voluntary Standard(s)

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

Mandatory Standard(s)

16 C.F.R. part 1222 Safety Standard for Bedside Sleepers

Purpose

To revise the ASTM standard to strengthen its safety provisions and maintain alignment with the federal mandatory standard for bedside sleepers.

Activities

No known voluntary standards development activity occurred during the reporting period. In 4th quarter 2016, staff compiled, reviewed and provided incident data to the ASTM subcommittee chairman.

Next Action

Staff will participate in the next ASTM subcommittee meeting when it is scheduled and help in the analysis of incident data.

Product

Bicycles

Staff Contact

Amodeo, Vincent

Voluntary Standard(s)

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

Mandatory Standard(s)

16 C.F.R. 1512 *Requirement for Bicycles*

Purpose

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

Activities

ASTM reaffirmed five different bicycle-related standards and revised another standard for non-powered bicycle trailers in the reporting period. Three additional standards pertaining to bike forks were re-balloted in August 2016 and received no negative votes. Those standards should be reapproved in early FY2017. Staff attended and participated in the ASTM subcommittee meetings on May 4, 2016 and September 21, 2016. During the meetings, various task groups reported on active proposals for frames, suspension systems and forks reported. In addition, manual wheel retention quick release lever requirements were reviewed in preparation for balloting.

Next Action

Staff will participate in the spring 2017 F08.10 subcommittee meeting.

Product

Booster Seats

Staff Contact

Kish, Celestine

Voluntary Standard(s)

Standard Consumer Safety Specification for Booster Seats (ASTM F2640-14)

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

Staff attended and participated in subcommittee meetings held on October 8, 2015, January 14, 2016, April 11, 2016, June 15, 2016 and September 28, 2016. In addition, staff participated in task group meetings held during the reporting period. At the subcommittee meetings, staff discussed recommendations for task group work concerning the stability and warnings/labeling requirements in the standard. In April 2016 and July 2016 ASTM issued ballot items dealing with booster seat attachments to adult chairs and warning/labeling requirements. Negatives and comments were received, requiring some modifications and the warnings/labeling ballot needs to be re-balloted, expected in 1st quarter FY2017.

Next Action

Staff will participate in the next ASTM subcommittee meeting scheduled for January 2017. Staff's briefing package for the NPR under Section 104 of the CPSIA is expected to the Commission in 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 A ballot item for ASTM F2601, requiring the use of aggressively burning tea lights when testing candle burners, was balloted and approved during the reporting period and resulted in a revision to *Standard Specification for Fire Safety for Candle Accessories (ASTM F2601-16)*, which was approved on February 1, 2016. In addition, ASTM F2417-16 was revised and approved on May 1, 2016.

Staff attended several subcommittee and task group meetings during the reporting period. Wick migration, acrylic candle holders, paints/coatings and birthday candle hazards were discussed. In addition, a task group is working on improving the readability of some of the standards. In July 2016, a ballot adding new safety requirements for tea light and taper candle holders was issued. During the September 2016 meeting, the ballot results were reviewed. The ballot item received negatives and comments and will be redrafted and sent back out to ballot in FY 2017.

Next Action Staff will continue to participate in ASTM subcommittee teleconferences and attend subcommittee meetings scheduled for FY 2017.

Product **Changing Tables**

Staff Contact Donahue, Shaina

Voluntary Standard(s) *Standard Consumer Safety Specification for Baby Changing Tables for Domestic Use*

(ASTM F2388-16)

Mandatory Standard(s)

NPR for 16 C.F.R. 1236 *Safety Standard for Baby Changing Products* (published 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

The current version of the standard was approved on July 1, 2016. It contains a new requirement pertaining to changing tables with folding stairs. Staff attended and participated in ASTM subcommittee meetings held on October 6, 2015, January 13, 2016, April 12, 2016, and September 26, 2016. In addition, staff participated in eight task group meetings between the last two subcommittee meetings. The folding stairs, collapse/stability, restraints, and warning/labeling task groups were active during the reporting period, and staff contributed to the development of new requirements for each issue. During the reporting period, ballots were issued to address requirements associated with entrapments in changing units with folding stairs, testing requirements for restraints, and to revise requirements associated with structural integrity/collapse issues. The restraint and structural integrity ballots had negatives and comments and thus are being redrafted.

Also during the reporting period, staff prepared a briefing package for an NPR under section 104 of the CPSIA. The NPR was approved by the Commission and published on September 29, 2016.

Next Action

Staff will participate in the next ASTM subcommittee meeting scheduled for January 2017. In addition, staff will be preparing a briefing package for the final rule for changing tables in FY 2017.

Product

Child-Resistant Packaging (“CRP”)

Staff Contact

Massale, John

Voluntary Standard(s)

Standard Classification of Child-Resistant Packages ASTM D3475-15

Mandatory Standard(s)

NA

Purpose

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).

Activities

Staff attended and participated in the ASTM D10.32 meeting on October 28, 2015 and April 12, 2016. The subcommittee voted to ballot a new packaging class in ASTM D3475. Several other standards were archived, due to a lack of precision and

bias studies. During the meeting, members expressed concerns about the committee being able to function fully. The idea to combine ASTM subcommittee D10 with ASTM subcommittee F2 was discussed. In addition, CSA cooperation and alignment was discussed.

Next Action Staff will participate in the next task group meeting and ASTM D10.32 subcommittee meetings.

Product **Clothes Dryers**

Staff Contact Lee, Arthur

Voluntary Standard(s) *Standard for Electric Clothes Dryers (UL 2158)*

Mandatory Standard(s) NA

Purpose The purpose of this standard development activity is to reduce clothes dryer fires and injuries.

Activities The latest revision of UL 2158 was approved in November 2015 and incorporates recent proposals made by the STP. Staff participated in several meetings during the reporting period regarding the development of a surrogate lint material to be used in the testing requirements for the standard. Testing performed by UL and two manufacturers of the surrogate lint did not produce any flaming ignitions.

Next Action CPSC staff will continue to participate on the UL Standards Technical Panel, 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 The ASTM standard has not been revised since 2012. Staff attended the ASTM subcommittee meeting on November 18, 2015, where improved anchoring requirements were discussed. A ballot was issued in May 2016 and received several negatives. Staff attended the ASTM subcommittee meeting on May 4, 2016, where the subcommittee discussed the outstanding ballot negatives. Draft revisions will be reballoted.

Next Action Staff will participate in the next subcommittee meeting scheduled for November 2016 in Orlando, FL.

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.

Activities Staff participated in the ASTM subcommittee meetings held on October 8, 2015 and September 30, 2016. During the October 2015 meeting, the subcommittee discussed adding additional products to the scope of the standard, such as crib rail covers and crib liners, and a ballot item including those new products was sent out in August. The results, including several negatives, were reviewed at the September meeting. The ballot item will be revised to reflect the comments. Staff also participated in task group conference calls on March 10 and March 24, 2016 where scope and warning-label placement and permanency were discussed. Staff also compiled, reviewed and provided incident data to the ASTM subcommittee during this reporting period.

In September 2016, staff presented a briefing package to the Commission entitled “CPSC Staff Response to the Record of Commission Action on Crib Bumpers.”

Next Action In the FY 2017 Operating Plan, the Commission directed staff to initiate rulemaking under Section 104 of the CPSIA to promulgate a mandatory standard that will address the risk of injury associated with use of padded crib bumpers, and to prepare an NPR

briefing package for FY 2018. Staff will also participate in the FY 2017 subcommittee meetings.

Product **Cribs (Commercial)**

Staff Contact Kish, Celestine

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

Mandatory Standard(s) 16 C.F.R. part 1219 *Safety Standard for Full-Size Cribs* and C.F.R. part 1220 *Safety Standard for Non-Full-Size Baby Cribs*

Purpose 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.

Activities The current version of ASTM F2710 was published in November 2013. The subcommittee has not met since then. During the reporting period, staff compiled, reviewed and provided incident data to ASTM.

Next Action CPSC staff will participate and continue to provide technical assistance at the next subcommittee meeting.

Product **Cribs (Full-Size)**

Staff Contact Kish, Celestine

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

Mandatory Standard(s) 16 C.F.R. part 1219 *Safety Standard for Full-Size Cribs*

Purpose 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.

Activities Staff attended the crib subcommittee meeting held on October 7, 2015, April 12, 2016 and September 26, 2016. It was noted that Health Canada revised its crib regulation in July 2016. It will become effective in December 2016.

Next Action Staff will continue to provide technical assistance to the subcommittee and will participate in future meetings.

Product **Cribs (Non-Full-Size) and Play Yards**

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards (ASTM F406-15)*

Mandatory Standard(s) 16 C.F.R. part 1220 *Safety Standard for Non-Full-Size Baby Cribs* and 16 C.F.R. part 1221 *Safety Standard for Play Yards*

Purpose 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.

Activities The current version of the ASTM standard was approved on November 1, 2015, and published in December 2015. This revision contained an exemption for play yards that sit on the floor and do not contain a mattress. In addition, the revision clarified the test requirement pertaining to cantilevered diaper changing units on play yards. Staff attended and participated in the subcommittee meetings held on October 7, 2015, April 13, 2016 and September 26, 2016. A possible revision to the mattress vertical displacement test was discussed to clarify the procedure for certain play yard designs. Task groups looking at accessory entrapment and mattress pad breathability were established. In addition, staff compiled, reviewed and provided incident data to ASTM regarding play yards.

Next Action CPSC staff will continue to provide technical assistance to the subcommittee, participate in task group activities, and attend future subcommittee meetings.

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. 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 February 5 and February 6, 2016. Staff participated in discussions about changes to provisions in the standards about audible effects tests, trace metals, and fuse attachments for large devices. On June 23, 2016, CPSC staff hosted a meeting between AFSL personnel, testing laboratories and CPSC staff regarding testing firework break charges by using X-ray Fluorescence Spectroscopy to improve the AFSL testing protocols.

Staff submitted a briefing package for the Fireworks Rule Review in December 2015; and currently, staff working on an NPR briefing package.

Next Action Staff will continue to attend and participate in AFSL and APA meetings and intends to submit the NPR briefing package in FY 2017.

Product **Flammable Liquids (Containers/Material Handling)**

Staff Contact Ayers, Scott

Voluntary Standard(s) None at this time (ASTM F15.10 subcommittee and UL 30 STP may consider future standards for flammable liquid containers).

Mandatory Standard(s) NA

Purpose To develop a voluntary safety standard for flammable liquid fuel containers used in open-flame consumer applications.

Activities ASTM F15.10 is actively working on developing flame-mitigation devices (“FMDs”) (e.g., flame arrestors) for gasoline containers. Developing a standard for flammable liquid fuels (such as fireplace and fuel gels) containers depends on the FMD work for gasoline cans. Staff attended and participated in F15.10 subcommittee meetings on October 14, 2015, May 26, 2016 and July 14, 2016. At the July meeting, the subcommittee recommended that a standard only for FMDs for gasoline containers be developed. CPSC staff will participate in the task group to develop this stand-alone standard.

Next Action Staff will continue to participate in the ASTM F15.10 efforts and on the development of the stand-alone standard for FMDs. A contract was awarded to develop test requirements for FMDs on flammable liquid fuel containers in FY 2017.

Product **Flammable Refrigerants**

Staff Contact Ayers, Scott

Voluntary Standard(s) *Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers (CANENA/UL 66335-2-24)*

Mandatory Standard(s) NA

Purpose To provide technical support toward developing voluntary standards requirements for flammable (natural) refrigerants used in household refrigerators and freezers.

Activities Staff participated in several teleconferences about flammable refrigerants during the reporting period (October 14, 2015; December 3, 2015; January 7, 2016; January 11, 2016; February 4, 2016, February 19, 2016 and June 8, 2016). The discussions centered on the allowable maximum charge/mass for propane allowed for the refrigerant used in a refrigerator. The current limit in the CANENA/UL standard is much lower than what standards in Mexico or Europe require. The technical committee is pursuing harmonizing the standards. The technical committee has discussed additional issues, such as using soldered or brazed joints vs. compression fittings, and requiring odorants.

Next Action Continue participating in the CANENA/UL 60335-2-24 working group meetings.

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) 16 C.F.R. part 1232 *Safety Standard for Children’s Folding Chairs and Stools* (NPR published in October 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 The current version of the standard, ASTM F2613-16e¹, was approved on May 1, 2016, and published in the same month.

Staff attended and participated in subcommittee meetings held October 9, 2015, January 13, 2016, April 13, 2016 and September 27, 2016. Staff was also actively involved in task group work pertaining to warning/labeling. During the reporting period, ASTM issued a ballot item for sideways stability - a requirement that is included in the Commission's NPR for children's folding chairs and stools, which published on October 19, 2015. The ballot item received negative votes and was modified to address the votes. ASTM sent the ballot item back out in March 2016 and it passed with no negatives or comments. In July 2016, another ballot items was issued, revising the warnings/labeling requirements. The ballot results contained negatives and comments, which were reviewed and discussed at the September 27, 2016 meeting. The task group will further review the persuasive negatives and a new ballot item will be issued to address the negatives.

Next Action Staff will attend and participate in future task group and subcommittee meetings and is planning to prepare a final rulemaking briefing package for Commission consideration in FY 2017.

Product **Formaldehyde in MDF**

Staff Contact Carlson, Kent

Voluntary Standard(s) *Medium Density Fiberboard Standard (ANSI 208.2-2016)*

Mandatory Standard(s) 16 C.F.R. § 1500.13 (d)

Purpose To participate in the revision of the ANSI standard to ensure that the U.S. Environmental Protection Agency's (EPA) rules regarding formaldehyde emissions from composite wood products and the U.S. Department of Housing and Urban Development's (HUD) regulations are considered in the standard.

Activities During the reporting period, staff provided written comments on the proposed revisions of ANSI 208.2-2009 and recommended delaying the revision until the EPA's and HUD's regulations regarding formaldehyde are finalized. ANSI updated, finalized and approved the revision on May 12, 2016.

Next Action Staff will work with the standard sponsor (Composite Panel Association) to revisit EPA and HUD alignments for the standard and stay informed of issues affecting the standard.

Product	Formaldehyde in Particleboard
Staff Contact	Carlson, Kent
Voluntary Standard(s)	<i>Particleboard Standard</i> (ANSI 208.1-2016)
Mandatory Standard(s)	16 C.F.R. § 1500.13(d)
Purpose	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.
Activities	During the reporting period, staff provided written comments to the proposed revisions of ANSI 208.1-2009 and recommended delaying the revision until EPA's and HUD's regulations of formaldehyde are finalized. Following the receipt of stakeholder commentary, ANSI updated, finalized and approved the standard on May 12, 2016.
Next Action	Staff will work with the standard sponsor (Composite Panel Association) to revisit EPA and HUD alignments for the standard and stay informed of issues affecting the standard.

Product	Frame Child Carriers
Staff Contact	Kish, Celestine
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Frame Child Carriers</i> (ASTM F2549-14a)
Mandatory Standard(s)	16 C.F.R. part 1230 <i>Safety Standard for Frame Child Carriers</i>
Purpose	To revise the ASTM standard to strengthen its provisions and keep the standard current with the federal mandatory standard for frame child carriers.
Activities	There were no voluntary standards meetings associated with frame child carriers during the reporting period. Staff compiled, reviewed and provided incident data to the ASTM subcommittee.
Next Action	Staff will participate in the next ASTM subcommittee meeting and assist in the incident data analysis.

Product	Fuel Tanks (Leakage)
Staff Contact	Lim, Han
Voluntary Standard(s)	<i>Standard for Off-Road Ground-Supported Outdoor Power Equipment Gasoline Fuel Systems - Performance Specifications and Test Procedures (ANSI/OPEI B71.10-2013)</i>
Mandatory Standard(s)	NA
Purpose	To provide technical assistance, as appropriate, to voluntary standard development activities concerning the ANSI/OPEI B71.10 standard, to improve safety.
Activities	<p>Staff attended and participated in an OPEI B71.10 subcommittee meeting in February 2016, held at the CPSC National Product Testing and Evaluation Center in Rockville, MD to discuss the findings in the Engineering Sciences staff report, “<i>Fuel Leaks Associated Outdoor Ground Supported Gasoline Powered Equipment.</i>” The report contained data on fuel tank assembly testing, incident data, possible sources of fuel leaks, product recall data, and possible deficiencies in the standard.</p> <p>Staff sent a letter to the OPEI B71.10 committee on July 2016 regarding the dialogue from the February 2016 meeting and provided staff recommendations to improve the current ANSI/OPEI B71.10-2013.</p>
Next Action	Staff will continue to provide technical support on activities related to the ANSI/OPEI B71.10-2013 standard and its revision.

Product	Furniture Tip-Over
Staff Contact	Massale, John
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 Staff attended the ASTM subcommittee meeting held on October 8, 2015 and April 28, 2016. At the October 8, 2015 meeting, staff presented incident data and provided suggestions on how to improve the standard. Five task groups resulted: (1) Age/Weight; (2) In-Situation Testing; (3) Preamble Language; (4) Height of Units; and (5) Labeling. During the April 28, 2016 meeting, a sixth task group was formed to revisit the definition of operational sliding length in the absence of drawer stops. Staff has been involved in all the task groups and participated in several teleconferences during the reporting period.

In August 2016, staff issued a report entitled “Product Instability or Tip-Over Injuries and Fatalities Associated with Televisions, Furniture, and Appliances: 2016 Report” and in September 2016, staff sent a briefing package to the Commission entitled “Staff Briefing Package on Furniture Tip-Over”. In the staff briefing package, staff noted that more can be done with the current voluntary standard to help reduce injuries and deaths.

Next Action Staff will continue to participate in the task groups established by the subcommittee and will attend the upcoming subcommittee meeting in November 2016.

Product **Garage Door Operators**

Voluntary Staff Contact Amodeo, Vincent

Standard(s) *Standard for Safety Door, Drapery, Gate, Louver, and Window Operators and Systems (UL 325)*

Mandatory Standard(s) 16 C.F.R. part 1211 *Safety Standard for Automatic Residential Garage Door Operators* (last revision published April 7, 2016)

Purpose To provide technical assistance, as appropriate, on voluntary standard development activities related to the UL standard to eliminate entrapment hazards associated with these products.

Activities CPSC staff prepared a draft revision to 16 C.F.R. part 1211, which is based on the requirements in recently revised UL 325 standard (Edition 6), revised February 24, 2016). Staff’s final rule briefing package was prepared and presented to the Commission in the reporting period. The Commission approved the revision to 16 C.F.R. part 1211 and it was published on April 7, 2016.

Next Action Staff will participate in the activities of the UL task group and will continue to focus on reducing entrapment hazards for residential garage door operators.

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)*
Automatic Electrical Controls for Household and Similar Use – Part 2-5: Particular Requirements for Automatic Electrical Burner Control Systems (ANSI/CSA Z21.20-2014)

Mandatory Standard(s) NA

Purpose To develop performance requirements for ANSI/CSA Z21.1 and/or Z21.20 for safe operation of gas ranges and to mitigate electronic control panel malfunctions.

Activities ANSI/CSA Z21.1-2016 was recently revised and approved in February 2016. Staff attended a joint technical subcommittee on Standards for Automatic Gas Controls held on October 26, 2015. During the meeting, staff’s letter requesting the formation of a working task group to review CPSC incident data was reviewed. A working group was established to review the data and to investigate possible root cause of the incidents and update terminology and/or test procedures in the applicable standards. Staff participated in the working group, which held teleconferences in December 2015, February 2016, and March 2016. During the March teleconference, a smaller work group/task group was formed to look at the electronics and controls. Both the smaller workgroup and larger workgroup have each met via teleconference approximately once a month to date.

Next Action Staff will continue to participate in the working group and provide technical support to 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) *Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use (ASTM F2517-15)*

Mandatory Standard(s) 16 C.F.R. part 1460 *Children’s Gasoline Burn Prevention Act Regulation*

Purpose To monitor and provide technical assistance, as appropriate, to voluntary standard development activities related to eliminating or reducing the poisoning of children by gasoline associated with portable fuel containers.

Activities Before the reporting period, the Commission incorporated by reference ASTM F2517-15, in accordance with the Children’s Gasoline Burn Prevention Act. Staff attended and participated in a July 14, 2016 meeting, where it was recommended that a standard only for FMDs for gasoline containers be developed. CPSC staff will participate in the task group to develop this stand-alone standard. Child resistant issues were also reviewed and discussed at the subcommittee meetings.

Next Action Staff will participate in the ASTM F15.10 subcommittee for work on child-resistance requirements for gasoline containers. Staff plans to attend future subcommittee meetings.

Product **Gasoline Containers (Flame Arresters)**

Staff Contact Scott Ayers

Voluntary Standard(s) *Standard Specification for Cautionary Labeling of Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use (ASTM F839-15)*
Standard Specification for Portable Gasoline Containers for Consumer Use (ASTM F852-08)
Standard Specification for Portable Kerosene and Diesel Containers for Consumer Use (ASTM F976-08)
Standard Specification for Spill Resistant Fueling Systems for Portable Fuel Containers for Consumer Use (ASTM F2234-08)
Standard Specification for One Time Use Portable Emergency Fuel Containers (PEFC) for Use by Consumers (ASTM F2874-12)

Mandatory Standard(s) NA

Purpose 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.

Activities In September 2015, staff sent a letter to the Chairman of the ASTM F15.10 subcommittee asking if CPSC staff can initiate developing FMD requirements. Task group meetings were held in October 2015 and December 2015, updating CPSC staff on the progress of the FMD work. Phase 3 of testing began in January 2016, and will examine durability and real-world use-testing of portable gasoline containers with FMDs installed. Staff attended and participated in a July 14, 2016 meeting where a recommendation was made to draft a test requirement for FMDs on gasoline containers based on the previous work.

Next Action Staff plans to attend future ASTM F15.10 subcommittee meetings and will continue participate in the drafting of the test requirement for FMDs.

Product **Gates and Other Enclosures**

Staff Contact Donahue, Shaina

Voluntary Standard(s) *Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures (ASTM F1004-16b)*

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 form the basis of a federal standard for gates and enclosures.

Activities ASTM F1004 has been revised three times in 2016, with the last revision, F1004-16b approved on July 1, 2016. Staff participated in subcommittee meetings held on October 5, 2015, January 12, 2016, April 11, 2016, June 14, 2016 and September 27, 2016. In addition, in November 2015, staff participated in a task group testing meeting held at Bureau Veritas Laboratories in Buffalo, NY. Staff also participated in task group conference calls during the reporting period. As a result of staff's effort, several new/revised requirements were added to the standard to address lock/latch/hardware failures, entrapments in openings, vertical strength, and bottom spacing. Staff is also working on the NPR briefing package for the CPSIA Section 104 associated rulemaking.

Next Action Staff will continue to work with the task groups and subcommittee on the outstanding technical and labeling issues. Staff expects to present the NPR briefing package to the Commission in FY 2017.

Product **Hand-Held Carriers**

Staff Contact Kish, Celestine

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 The most recent revision of the standard, ASTM F2050-16 was approved on February 1, 2016 and includes a change to the warning labels for hand-held bassinets/cradles. Staff attended and participated in ASTM subcommittee meetings held on October 6, 2015, and January 14, 2016, April 11, 2016, and September 29, 2016. A ballot item was issued during the reporting period to add “semi-rigid-sided” products to the scope of the standard. This would make F2050 consistent with 16 C.F.R. § 1225, which already includes those products. The ballot item had no negatives but there were comments stating that there should be a definition for “semi-rigid”. The revision of the standard is on hold pending the development, balloting and approval of a new definition. Staff also compiled, reviewed and provided incident data to the subcommittee. A task group was formed to analyze the incident data.

Next Action Staff will continue to provide technical assistance and incident data to the subcommittee, participate on task groups, and attend the next subcommittee meeting scheduled for January 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

Purpose To revise the ASTM standards and monitor NOCSAE standards to improve consumer safety.

Activities There were two ASTM standards revised during the reporting period. ASTM F1163-15, *Protective Headgear – Horse Sports/Riding*, and ASTM F1446-15a and 15b, *Protective Headgear – Equipment & Procedures*, were both reaffirmed on October 1, 2015.

On October 27, 2015, CPSC staff sent a letter to ASTM requesting the development of a new safety standard to address sensor-based products that detect head impacts. ASTM created a working group. On September 12, 2016, ASTM requested that CPSC staff to lead the task group, and if approved, CPSC staff expect to begin that role starting in FY 2017.

Additionally, during the reporting period, NOCSAE proposed a revised standard ND002-13m15, *Standard Performance Specification for Newly Manufactured Football Helmets*. On January 29, 2016, staff participated in NOCSAE's winter board meeting, where NOCSAE reviewed the status of various standards.

Next Action CPSC staff will participate in the next ASTM subcommittee meeting and expect to serve as the task group chair of the sensor standard task group. Additionally, CPSC staff will continue to monitor NOCSAE standards and attend the future NOCSAE board meetings.

Product **High Chairs**

Staff Contact Marques, Stefanie

Voluntary Standard(s) *Standard Consumer Safety Specification for High Chairs* (ASTM F404-16a)

Mandatory Standard(s) 16 C.F.R. part 1231 *Safety Standard for High Chairs* (NPR published in November 2015)

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

Activities Staff finalized a briefing package for an NPR on high chairs during the reporting period. The NPR was published on November 9, 2015 and included modifications to the reward stability and warnings/labeling requirements. In addition, staff attended and participated in the October 8, 2015, January 14, 2016, April 14, 2016, June 15, 2016, and September 29, 2016 ASTM subcommittee meetings. The voluntary standard was revised twice in FY2016. The latest revision, F404-16a was approved on July 1, 2016. The revisions include changes to the reward stability requirement. Revisions to the warnings/labeling requirements were balloted in August 2016 and staff cast a negative vote on the ballot, as now allowed under 16 C.F.R. part 1031. The ASTM subcommittee discussed staff's negative at the September 29th meeting and found it persuasive.

Next Action Staff will work with ASTM on revising the ballot via task group meetings and participate in the next ASTM subcommittee meeting scheduled for January 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>	Kish, Celestine
<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>	There were no meetings regarding the hook-on chair voluntary standards during the reporting period. In February 2016, staff prepared a final rule briefing package for hook-on chairs, in accordance with Section 104 of the CPSIA. The Commission approved the new standard, which incorporates by reference the ASTM voluntary standard, ASTM F1235-15, with no modifications. The final rule, 16 C.F.R. part 1233, published in the <i>Federal Register</i> on March 28, 2016. In September 2016, staff compiled, reviewed and submitted incident data to ASTM regarding hook-on-chairs.
<i>Next Action</i>	Staff will continue to monitor incident data and participate in the next subcommittee meeting when it is scheduled.

<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 F3118-16)</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 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 F3118-16, was approved on May 1, 2016. During the reporting period, staff attended meetings on October 5, 2015, January 14, 2016, April 14, 2016, June 14, 2016 and September 28, 2016. Outstanding issues include revising the warnings/labeling sections, developing a rationale for the 30 degree maximum incline level, clarifying “intended for sleep” in the scope, and revising the instructional literature requirements. Staff is continuing to work on the rulemaking project and intends to present the NPR briefing package to the Commission in FY 2017.

Next Action CPSC staff will participate in the next ASTM subcommittee meeting scheduled for January 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 The ASTM subcommittee did not meet during the reporting period. Staff compiled and reviewed the incident data pertaining to infant bath seats and reported the results to the ASTM subcommittee chairman.

Next Action Staff will continue to provide technical assistance and incident data to the subcommittee, as appropriate, and will attend the next ASTM subcommittee meeting, when scheduled.

Product **Infant Bath Tubs**

Staff Contact Kish, Celestine

Voluntary Standard(s) *Consumer Safety Specification for Infant Bath Tubs (ASTM F2670-16a)*

Mandatory Standard(s) 16 C.F.R. part 1234 *Safety Standard for Infant Bath Tubs* (NPR published August 2015)

Purpose 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.

Activities The ASTM standard was revised twice in the reporting period. The current version, F2670-16a was approved on September 1, 2016 and it includes updated locking/latching, static load and warnings/labeling requirements. Staff participated in

subcommittee meetings held on October 6, 2015, January 13, 2016, June 23, 2016 and September 27, 2016. The standard still needs a minor revision to the packaging and instructional literature sections, and ASTM intends to ballot that revision in 1st quarter FY 2017.

Next Action Staff will continue to provide technical assistance to the subcommittee and will participate in the next ASTM subcommittee meeting scheduled for January 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, following the next revision of the ASTM standard.

Product **Infant Bouncers**

Staff Contact Wanna-Nakamura, Suad

Voluntary Standard(s) *Standard Consumer Safety Specification for Infant Bouncer Seats (ASTM F2167-16)*

Mandatory Standard(s) 16 C.F.R. part 1229 *Safety Standard for Infant Bouncer Seats* (NPR published in October 2015)

Purpose To help revise the ASTM standard to eliminate or reduce hazards and serve as the basis for a federal standard for infant bouncer seats.

Activities The current version of ASTM F2167-16 was approved on May 1, 2016. In the reporting period, staff attended and participated in subcommittee meetings on October 6, 2015, January 13, 2016, April 11, 2016, June 15, 2016 and September 28, 2016. In addition, staff participated in several task group meetings throughout the reporting period. The warnings/labeling sections were further developed and balloted. As of the end of the reporting period, changes were still needed for the instructional literature requirements. It is expected that those will be balloted shortly.

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

<i>Voluntary Standard(s)</i>	<i>Consumer Safety Specification for Sling Carriers (ASTM F2907-15)</i>
<i>Mandatory Standard(s)</i>	16 C.F.R. part 1228 <i>Safety Standard for Sling Carriers</i> (NPR published in July 2014)
<i>Purpose</i>	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).
<i>Activities</i>	Staff attended and participated in the October 6, 2015, subcommittee meeting. Ballot results for a revision to the Occupant Retention Test were reviewed. The ballot item passed, and the standard was revised, and ASTM F2907-15 was approved on October 15, 2015. Staff also continued to work on the briefing package for the final rule for sling carriers.
<i>Next Action</i>	Staff will participate in the next ASTM subcommittee meeting and will participate in any intervening task group meetings. Staff also intends to finalize the final rule briefing package in FY 2017.

Product **Infant Swings**

Staff Contact Kish, Celestine

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

Mandatory Standard(s) 16 C.F.R. part 1223 *Safety Standard for Infant Swings*

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 infant swings.

Activities The latest revision of the ASTM standard, ASTM F2088-15, was approved in October 2015. It contains an update of the test procedure and adds guidance on the age at which infant swings should no longer be used. Staff participated in the subcommittee meetings held on October 4, 2015, April 14, 2016 and September 27, 2016. In addition, staff compiled, reviewed and provided incident data to the subcommittee.

Next Action Staff will continue to provide technical assistance to the subcommittee and participate in the next ASTM subcommittee meeting.

Product	Infant Walkers
Staff Contact	Kish, Celestine
Voluntary Standard(s)	ASTM <i>Standard Consumer Safety Performance Specification for Infant Walkers</i> (ASTM F977-12)
Mandatory Standard(s)	16 C.F.R. part 1216 <i>Safety Standard for Infant Walkers</i>
Purpose	To maintain alignment of the ASTM voluntary standard and the federal mandatory standard for infant walkers.
Activities	Staff attended and participated in the ASTM subcommittee meeting on September 29, 2016 on infant walkers during the reporting period. The subcommittee chair advised members that the last revision to the standard was 2012, so he is preparing for renewal. Staff compiled, reviewed and provided incident data to the ASTM subcommittee.
Next Action	Staff will continue to provide incident data and technical assistance to the subcommittee and participate in the next subcommittee meeting, when it is scheduled.

Product	Liquid Laundry Packets
Staff Contact	Newens, Sarah
Voluntary Standard(s)	<i>Standard Safety Specification for Liquid Laundry Packets</i> (ASTM F3159-15)
Mandatory Standard(s)	NA
Purpose	To assess the new ASTM standard to significantly reduce deaths and severity of injuries from exposure to concentrated liquid laundry detergent packets.
Activities	The new standard for liquid laundry packets, ASTM F3159-15, was published in October 2015. During the reporting period, staff continued to attend and participate in several meetings with ASTM task groups. In addition, a steering team was formed to research and present various topics of interest to stakeholders, including consumer advocacy groups, manufacturers, and regulatory agencies. Meetings during the reporting period pertained to the planning of a roundtable meeting and data monitoring. The data task group met to establish criteria for assessing the effectiveness of the voluntary standard, including the scope of the analysis, determination of the baseline period, target age, incident data sources, analysis methodology, frequency of reporting, and thresholds for acceptable reduction in

incidents. Staff participated in the various task group meetings held during the reporting period. Potential future requirements for the standard, such as bite tests, packet attractiveness, and child-resistant packaging have also been discussed. On March 3, 2016, a roundtable meeting was held in Washington D.C., and staff participated. Presentations on consumer market research, poison control data and global perspectives were part of the roundtable.

Next Action Staff will continue to be actively involved in the ASTM meetings and provide technical assistance when needed.

Product **Mattresses**

Staff Contact Scott, Lisa

Voluntary Standard(s) *Standard Test Method for Measuring the Heat Release Rate of Low Flammability Mattresses and Mattress Sets (ISO 12949)*

Mandatory Standard(s) 16 C.F.R. part 1633 *Standard for the Flammability (Open Flame) of Mattress Sets*
16 C.F.R. part 1232 *Standard for the Flammability of Mattresses and Mattress Pads*

Purpose To participate in any voluntary standards development activities related to mattresses, including the technical review of ISO 12949.

Activities Staff is currently monitoring ISO Technical Committee 92 to see when the ISO standard, which is based on 16 C.F.R. part 1633, will be on the agenda for its 5-year review. During the reporting period, staff reviewed incident data pertaining to mattress fires.

Next Action Staff plans to provide technical support, as appropriate, on any standards activities relating to mattress flammability.

Product **Mowers**

Staff Contact Murphy, John

Voluntary Standard(s) *Standard for Consumer Turf Care Equipment-Walk-Behind Mowers and Ride-on Machines with Mowers-Safety Specifications (ANSI/OPEI B71.1-2012)*

Mandatory Standard(s) 16 C.F.R. part 1205 *Requirements for Walk-Behind Power Lawn Mowers*

Purpose To provide technical support on the maintenance and revision of the ANSI standard

to reduce injuries.

Activities OPEI issued a draft revised standard for comment in May 2016 and CPSC staff reviewed the draft. At this point, OPEI is reviewing the comments received. A revision is expected in FY2017. Also during the reporting period, staff worked on developing comments to the No-Mow in Reverse provisions to address the incidents in which a mower ran over children.

Next Action At this time, there is no activity planned for FY 2017.

Product **Nanotechnology**

Staff Contact Matheson, Joanna

Voluntary Standard(s) *New Guide for Detection and Characterization of Manufactured Silver Nanomaterials in Textiles (ASTM E3025-16)*

Mandatory Standard(s) NA

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

Activities The ASTM voluntary standard that will serve as a new guide on silver nanomaterials in textiles, ASTM E3025-16, was approved on May 1, 2016. ASTM has several other nanotechnology standards, both published and in development.

Staff remains active as part of the US TAG to develop ISO standards regarding nanotechnology and attended the US TAG meeting held in April 2016. In addition, staff attended and participated in a workshop held in June 2016 to further promote and deepen the US and EU collaboration on nano-safety research.

Next Action CPSC staff will continue to be active in the ASTM subcommittee on nanotechnology and also the ISO TC229 US TAG.

Product **National Electrical Code (NEC)**

Staff Contact Lee, Doug

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

<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, electrical equipment, and wiring products.
<i>Activities</i>	Staff participated in the second draft/report on comment meeting in November 2015, to review the public comments for the 2017 edition of the NEC. The newest version of the NEC was approved on August 4, 2016.
<i>Next Action</i>	Staff will participate in the NFPA 70 First Draft meetings in 1 st quarter FY 2017, to develop committee actions on the public input for the 2020 edition of the NEC.

Product **Phthalates (Testing Methods)**

Staff Contact Dreyfus, Matt

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

Mandatory Standard(s) 16 C.F.R. part1307 *Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates* (NPR published in December 2014)

Purpose To develop new test methods for determining the presence of low-level, regulated phthalates in poly (vinyl chloride) plastics.

Activities Staff attended a teleconference on November 16, 2015, pertaining to ASTM F7823-13. During the meeting, round robin testing was discussed for testing a new standard reference material containing phthalates. Staff also attended a workgroup meeting pertaining to low-level phthalates testing on April 11, 2016. A draft of the revised solvent extraction test method was discussed and edited and sent out to ballot. The revision was approved by ASTM on May 1, 2016. Also in the reporting period, staff participated in drafting a new test method based on solvent extraction.

Next Action Staff will participate in future ASTM meetings.

Product **Playground Equipment (Home)**

Staff Contact Phillips, Khalisa

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Home Playground Equipment (ASTM F1148-12)*

Mandatory Standard(s) NA

Purpose To revise the ASTM standard to strengthen its safety provisions to address known hazards associated with home playground equipment.

Activities Staff participated in the subcommittee meeting held on November 16, 2015 and May 3, 2016. During the meetings, the discussion focused on a recent ballot measure related to dynamic swing testing. In addition, the subcommittee discussed the issue of swing chains breaking and how to include a requirement or test in the standard for swing chain strength. During the reporting period, ASTM issued three ballot items during the reporting period.

Next Action Staff will participate in the next subcommittee meeting scheduled for 1st quarter FY 2017.

Product **Playground Equipment (Public)**

Staff Contact Phillips, Khalisa

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Public Playground Equipment (ASTM F1487-11)*

Mandatory Standard(s) NA

Purpose To revise the ASTM standard to strengthen its safety provisions to address the hazards associated with public playground equipment.

Activities Staff participated in the subcommittee meeting for public playground equipment held on November 17, 2015 and May 3, 2016. During the meetings, participants discussed:

- Hosting a symposium on playground safety and innovation;
- Merging the F2373 standard (for children 6 months to 23 months) with F1487 (for children 2-12 years); a task group was formed for further discussion;
- Harmonizing definitions in the standard with ISO;
- Including guidance on how to do a risk analysis in the scope of the standard; and

- Whether to include “foreseeable use” and/or “foreseeable misuse” in the standard.
- Methods to educate operators regarding the standard
- Tandem swing designs, entrapment and surfacing materials.

ASTM issued eight ballot items during the reporting period. A revised standard is expected in FY 2017.

Next Action CPSC staff will participate in the next subcommittee meetings scheduled for 1st quarter FY 2017.

Product **Portable Bed Rails (Children’s)**

Staff Contact Kish, Celestine

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

Mandatory Standard(s) 16 C.F.R. part 1224 *Safety Standard for Portable Bed Rails*

Purpose To maintain alignment of the ASTM voluntary standard with the federal mandatory standard for portable bed rails for children.

Activities Staff compiled, reviewed and provided incident data to the ASTM subcommittee chairman in March 2016. Staff also attended a subcommittee meeting on April 13, 2016 where the data was discussed. A task group was put together to develop a standard protocol for the analysis of incident data. In addition, staff attended a subcommittee meeting on June 15, 2016 where bedrails being used on certain types of toddler beds were discussed.

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

Product **Portable Fireplaces (Firepots and Unvented Alcohol Appliances)**

Staff Contact Ayers, Scott

Voluntary Standard(s) *Standard for Unvented Alcohol Fuel Burning Appliances (UL 1370)*

Mandatory Standard(s) ANPR Published December 2011

Purpose To help develop a voluntary safety standard for portable, unvented liquid-fuel burning appliances.

Activities Staff attended several task group meetings to develop a draft revised standard. The standard is taking into consideration CPSC's recommendations sent to UL in 2015. Staff expects that if the STP accepts the draft standard, then a new standard specifically for portable fireplaces would be created, rather than appending the existing standard, UL 1370.

The STP updated UL 1370 during the reporting period, with modifications to the scope, fuel capacity and test room size; made editorial changes; and specified additional requirements for outdoor appliances. The approval date of this revision was March 14, 2016.

Next Action Staff will continue to work with the task group and attend any meetings related to developing the new standard.

Product **Portable Generators**

Staff Contact Buyer, Janet

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

Mandatory Standard(s) NPR to be published in early fiscal 2017

Purpose To develop a national consensus safety standard to reduce carbon monoxide ("CO") deaths and serious injuries associated with portable generators.

Purpose Staff participated in several UL 2201 CO subtask group meetings and task group meetings (October 16, 2015, December 1, 2015, December 18, 2015, January 22, 2016, February 25, 2016, March 28, 2016, May 23, 2016 and August 12, 2016), where a draft test method for determining CO emission rates of portable generators was reviewed, edited, and discussed. Staff provided comments and input to the draft.

In addition, staff met with PGMA on December 10, 2015, August 12, 2016 and September 9, 2016. During the December meeting, issues such as the effectiveness of the mandatory label, the pace of the UL subtask group meetings, and alternative strategies to address the CO hazard were discussed. During the August meeting, the focus group testing relating to the warnings on portable generators was discussed. During the September meeting, PGMA announced that they were re-opening their voluntary standard by submitting the ANSI PINS form, with the intent to incorporate a strategy focused on CO concentrations.

Staff also participated in PGMA's Technical Summit on CO Hazard Mitigation for Portable Generators on March 17, 2016.

In addition, staff prepared an NPR briefing package and submitted it to the Commission in early FY 2017.

Next Action Staff will continue to participate in the activities of UL's task group and will continue to focus on reducing CO poisoning associated with portable generators, working with any and all SDOs that seek to address these poisonings. Staff will also review the public comments on the NPR and continue the rulemaking process.

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 During the last reporting period, UL balloted and approved the adoption of the international standard for table saws, IEC 62841-3-1 to replace UL 987 as the voluntary standard for table saws. At the same time, UL balloted a proposal to adopt active injury mitigation system ("AIMS") requirements for table saws and staff submitted comments to the ballot and urged the STP and UL to accept the proposal. The ballot did not pass. Staff also continued to work on the development of an NPR briefing package for table saws, which contains requirements for AIMS.

Next Action CPSC staff will continue to provide technical assistance to UL toward the adoption of AIMS requirements for table saws.

Product **Ranges (Tip-Over)**

Staff Contact Lee, Arthur

Voluntary Standard(s) *Standard for Household Electric Ranges (UL 858)*

Mandatory Standard(s) NA

Purpose To revise the UL standard to reduce freestanding range tip-over hazards.

Activities Staff attended meetings on June 20, 2016 and August 3, 2016 relating to range stability. A proposal covering load release door performance requirements and marking/labeling requirements was developed and reviewed during the meetings. The proposal is expected to be sent to the STP for consideration in early FY 2017.

Next Action CPSC staff will continue to monitor the proposal through the balloting and revision stage.

Product **Recreational Off-Road Vehicles (ROVs)**

Staff Contact Paul, Caroleene

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

Mandatory Standard(s) 16 C.F.R. part 1422 *Recreational Off-Road Vehicles* (NPR published in November 2014)

Purpose To revise the standards to include effective safety performance requirements for lateral stability, vehicle steering, and occupant protection performance.

Activities Staff attended and participated in a ROHVA voluntary standards meeting on October 5, 2015, which staff hosted at CPSC headquarters in Bethesda, MD. During the meeting, ROHVA representatives summarized the areas of concern expressed by CPSC staff at the October 23, 2014 public meeting and the proposed requirements for the next revision of the ROHVA standard that address those concerns. Staff also urged ROHVA and OPEI to ballot their respective proposals for staff to provide comments. OPEI and ROHVA balloted canvass drafts of their revised standards on October 30, 2015, and November 2, 2015, respectively. On December 1, 2015, CPSC staff commented on both canvass drafts and supported the proposed changes. OPEI and ROHVA reballoted proposed changes to their respective standards in February 2016, and CPSC staff responded, supporting the proposed changes. As a result of the ballots, the latest revisions of ANSI/ROHVA 1-2016 and ANSI/OPEI B71.9-2016 were approved on April 18, 2016 and May 13, 2016 respectively.

Next Action Staff will prepare a briefing package with their assessment of the voluntary standards for ROVs and submit it to the Commission in early FY 2017.

Product	Self-Balancing Scooters
Staff Contact	Lee, Doug
Voluntary Standard(s)	<i>Outline of Investigation for Electrical Systems for Self-Balancing Scooters (UL 2272)</i> <i>Recreational Powered Scooters and Pocket Bikes (ASTM F2641-15)</i>
Mandatory Standard(s)	NA
Purpose	To develop requirements to address the electrical and mechanical hazards associated with self-balancing scooters.
Activities	<p>On February 24, 2016 and September 1, 2016 staff participated in ASTM task group meetings on self-balancing scooters to address fall hazards. During the February meeting, task groups were formed to look at electrical, scope/definitions, incident data, speed/weight and general requirements were established.</p> <p>On September 29, staff participated in an ASTM teleconference of the electrical task group developing requirements to address the fall hazards for an ASTM standard.</p> <p>Staff also attended a March 8, 2016 UL meeting regarding the UL Outline of Investigation for Electrical Systems for Self-Balancing Scooters (UL 2272). Changes to UL 2272 were discussed and UL issued a ballot in the summer 2016, in an effort to incorporating the changes with the goal to make UL 2272 a voluntary consensus standard. ASTM and UL will coordinate efforts between the two standards.</p>
Next Action	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 On October 30, 2015, UL 217 was revised (Edition 8). Staff attended and participated in teleconference meetings initiated by Vision 20/20 on April 11, 2016 and May 13, 2016. These meetings discussed action items associated with conducting a survey on the prevalence and characteristics of smoke alarms. In addition, staff participated in an NFPA meeting to review a draft revision of NFPA 72.

Next Action Staff will continue to participate in any future UL 217 task group activities and 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) *Standard Consumer Safety Specification for Soft Infant Carriers (ASTM F2236-16a)*

Mandatory Standard(s) 16 C.F.R. part 1226 *Safety Standard for Soft Infant and Toddler Carriers*

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 Staff attended ASTM subcommittee meetings for soft infant and toddler carriers on October 6, 2016, April 14, 2016 and September 28, 2016. During the reporting period, ballots were issued pertaining to requirements and definitions of load-bearing fasteners. As a result of the ballots, the standard was revised twice in FY 2016. The current version of the standard, ASTM F2236-16a was approved on September 1, 2016.

Next Action CPSC staff will attend and participate in the next subcommittee meeting when scheduled.

Product **Spray Polyurethane Foam Insulation (Residential Off-Gas)**

Staff Contact Biggs, Melanie

Voluntary Standard(s) *Test Method for Estimating Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Using Micro-Scale Environmental Test Chambers (ASTM WK40293 – under development)*

New Standard Measuring Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation Samples in a Large-Scale Spray Booth (ASTM WK51588 – under development)

New Standard Application of Indoor Emission and Fate Modeling for Spray Polyurethane Foam (SPF) Insulation (ASTM WK52052 – under development)

Mandatory Standard(s)

NA

Purpose

To provide technical support to develop voluntary standards to test for 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 a subcommittee meeting for D22.05 on April 12, 2016. Testing and modeling data relating to the spray foam standards under development was discussed.

Next Action

Staff will continue to provide technical support to the subcommittee and attend/participate in future meetings.

Product

Stationary Activity Centers

Staff Contact

Lee, Kevin

Voluntary Standard(s)

Standard Consumer Safety Specification for Stationary Activity Centers (ASTM F2012-16)

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 serve as the basis for a federal standard for stationary activity centers.

Activities

At the ASTM subcommittee meeting on October 5, 2015, January 12, 2016 April 14, 2016 and September 29, 2016. Two items were balloted and approved: (1) adding a new definition for “closed-base stationary activity centers,” and (2) removing unrelated references. The current version of the standard was approved on April 15 2016. On March 30, 2016, staff also participated in a task group teleconference regarding spring failures. Ballots were issued pertaining to definitions regarding springs. Other task groups were established dealing with incident data, and warning/labeling requirements.

Next Action Staff will continue to provide technical assistance to the subcommittee and task group and will participate in the next subcommittee meeting scheduled for January 2017. Staff will also provide ASTM with requested IDIs pertaining to stationary activity centers.

Product **Strollers**

Staff Contact Balci-Sinha, Rana

Voluntary Standard(s) *Standard Consumer Safety Specification for Carriages and Strollers (ASTM F833-15)*

Mandatory Standard(s) 16 C.F.R. part 1227 *Safety Standard for Carriages and Strollers*

Purpose 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.

Activities Staff attended and participated in the October 9, 2015, April 13, 2016, and September 28, 2016, subcommittee meetings. A task group was established to address some of the incidents involved in a recent recall dealing with children chewing/choking on the foam covering of stroller parts. Staff is participating with the task group, which met twice during the reporting period.

In addition, the voluntary standard was revised to its current version, ASTM F833-15 in 1st quarter FY2016. ASTM officially notified the CPSC on April 5, 2016, that ASTM has published and submitted the revised 2015 version of ASTM F833 for consideration to be the CPSC's new safety standard for carriages and strollers. The Commission accepted this revision and therefore, effective October 2, 2016, ASTM F833-15 becomes the referenced standard under 16 C.F.R. part 1227.

Also during the reporting period, two country members of ISO submitted a proposal for a new work item for wheeled child conveyances. The US TAG for the ISO group voted no on the proposal and submitted comments that were developed mainly in part by ASTM subcommittee members. Despite the US TAG vote, the proposal passed, therefore ISO will begin work on a new standard for strollers.

Next Action Staff will continue to provide technical assistance to the ASTM subcommittee and also to ISO. Staff will participate in the next ASTM subcommittee meeting when scheduled.

Product	Swimming Pools and Spas (Drain Covers)
Staff Contact	Sharpless, Perry
Voluntary Standard(s)	<i>American National Standard for Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs (ANSI/APSP-16-2011).</i>
Mandatory Standard(s)	16 C.F.R. part 1450 <i>Virginia Graeme Baker Pool and Spa Safety Act</i>
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	On October 15, 2015, staff sent a letter to the APSP-16 Technical Committee Chairman with specific recommendations regarding the revision of APSP-16-2011. In addition, staff attended the APSP-16 technical committee meetings held on November 7 - 8, 2015, and on February 3 - 4, 2016.
Next Action	Staff will attend the final technical committee meeting to discuss revisions to APSP-16 in 1 st quarter FY 2017, after which the standard is expected to be balloted.

Product	Tents
Staff Contact	Tenney, Allyson
Voluntary Standard(s)	ASTM (Under development, not yet published)
Mandatory Standard(s)	NA
Purpose	To assist in developing an ASTM voluntary standard that will address the hazards associated with tent flammability.
Activities	Health Canada is revising their mandatory requirements for tents. An ASTM task group was formed to initiate developing a standard for tent flammability but there were no meetings scheduled during the reporting period. Staff reviewed incident data and began compiling a summary.

Next Action Staff will participate in future subcommittee and task group meetings in FY 2017.

Product **Toddler Beds**

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Toddler Beds (ASTM F1821-15)*

Mandatory Standard(s) 16 C.F.R. part 1217 *Safety Standard for Toddler Beds*

Purpose To revise the ASTM standard to harmonize with the federal mandatory standard for toddler beds.

Activities During the reporting period, staff attended the toddler bed subcommittee meetings held on October 7, 2015 and September 26, 2016. In addition, staff provided comments regarding a ballot item revising the openings test procedure to match the federal standard. Staff comments provided alternative wording to what was balloted. The subcommittee agreed to withdraw the ballot and start over, using staff's suggested language. The ballot was reissued and passed. A new standard is expected to be approved and published in 1st quarter FY 2017.

Next Action Staff will continue to provide technical assistance to the subcommittee and participate in the next subcommittee meeting.

Product **Torch Fuel and Lamp Oil**

Staff Contact White, Sharon

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

Mandatory Standard(s) NA

Purpose To develop a new ASTM safety standard to address the hazards to children associated with torch fuel, lamp oil, and their containers.

Activities During the reporting period, staff attended and participated in a number of task group teleconferences, during which the task group reviewed and developed the draft

standard. The task group drafted requirements for test methods, including chemical resistance and permeability, container opacity, and labeling requirements.

Next Action 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 Massale, John

Voluntary Standard(s) *Standard Consumer Safety Specification for Toy Safety (ASTM F963-16)*

Mandatory Standard(s) *Section 106, CPSIA, ASTM F963-11*

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 On December 3 and December 10 staff participated in teleconferences for the ASTM toy battery task group to address negative ballot comments. On March 4, 2016, staff attended the ASTM subcommittee meeting for the toy standard (ASTM F963) and the toy standard was revised to include new requirements for batteries.

The latest revision of the toy standard, F963-16 was approved on August 1, 2016. The revision contains changes to several sections of the standard, including heavy elements, sound-producing toys, projectile toys, batteries, toy chest, magnets, ride on toy straps, mouth actuated toys, rotors, expanding materials, and cleanliness. The 2016 version of the standard was not published as of the close of the reporting period but publication is scheduled for 1st quarter FY 2017, and will be followed by an official notification from ASTM for the Commission to consider F963-16 as the new federal safety standard for toys.

Next Action Staff will continue to participate in future subcommittee and task group meetings. After official notification from ASTM, staff will review F963-16 and prepare a briefing package to the Commission on whether to accept the revised standard in whole or in part.

Product **Upholstered Furniture**

Staff Contact Lock, Andrew

***Voluntary
Standard(s)***

Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture (ASTM E1353-16)
Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture (NFPA 260)

***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 participated in the NFPA 277 Upholstered Furniture Main Task Group teleconference held on October 1, 2015 and primary task group to develop a new standard, NFPA 277. NFPA is a proposed document that is in the very early stages of development. The primary task group is developing a proposed draft to submit to the secondary task group for review before the document is submitted to the Full Technical Committee. The task group met again on March 18, 2016, April 29, 2016 and June 10, 2016. The draft revision of the standard is ongoing.

Staff also attended the NFPA Fire Test technical committee meeting on March 29, 2016. During this meeting staff proposed changes to NFPA 260 to improve the efficacy of that test. The committee voted to consider all of the proposed changes. The next meeting is tentatively scheduled for March 21, 2017.

Also during the reporting period, staff attended ASTM E05 Committee meetings related to fire tests and flammability. Staff gave a presentation regarding work done on upholstered furniture during the ASTM E05 Research Review meeting. The same presentation was presented in the E05.23 subcommittee meeting. Staff requested that the committee consider some of the staff's research in revising ASTM E1353. ASTM E1353 was updated in 2016 to revise the cigarette used in the test to be the NIST standard reference material 1196.

On September 8, 2016, staff presented a briefing package to the Commission with regard to the open rulemaking on upholstered furniture. Staff recommended that the Commission terminate the open rulemaking and consider other solutions, including continued participation with voluntary standards groups.

Next Action

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

<i>Product</i>	Vented Gas Heating Appliances (CO Sensors) (Formerly Furnaces)
<i>Staff Contact</i>	Jordan, Ronald
<i>Voluntary Standard(s)</i>	<i>Gas-Fired Central Furnaces (ANSI Z21.47)</i> <i>Gas-Fired Low Pressure Steam and Hot Water Boilers (ANSI Z21.13)</i> <i>Vented Gas-Fired Space Heating Appliances (ANSI Z21.86)</i>
<i>Mandatory Standard(s)</i>	NA
<i>Purpose</i>	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.
<i>Activities</i>	Staff participated in several ANSI Z21 meetings during the reporting period to advocate for its September 2015 standards proposal. The meetings included the following: October 26, 2015 – Z21/CSA Joint Technical Subcommittee on Standards for Gas-Fired Central Furnaces; October 27, 2015 Joint Technical Subcommittee of the CSA Technical Committee on Performance & Installation of Gas Burning Appliances & Related Accessories and the Z21/83 Technical Committee of Standards for Gas-Fired Appliances and Related Accessories; October 29, 2015 and July 12, 2016 - Z21/CSA Joint Technical Subcommittee on Standards for Vented Gas Heaters and the Z21/CSA Joint Technical Subcommittee on Standards for Gas-Fired Low-Pressure Steam and Hot Water Boilers. During these meetings, a cross-functional working group was established (<i>i.e.</i> , the ANSI/CSA Cross-Functional Working Group on Carbon Monoxide Detector Sensors in Gas Appliances) with members from the furnace, boiler, and vented heater (wall and floor furnaces only) technical subcommittees. CPSC staff is participating in that working group and attended and participated in a meeting held on March 22, 2016 and September 8, 2016. Staff did not participate in the ANSI/CSA Cross-Functional Working Group (WG) on Carbon Monoxide Sensors in Gas Appliances, held on August 3, 2016 because the meeting was closed to the public. The objectives of the WG are to: 1) Determine the availability and feasibility of using CO/combustion sensors in residential gas furnaces and boilers; 2) Evaluate the impact that such sensors may have internationally in Japan and Europe; and 3) Determine the cost/benefit of requiring such sensors in gas furnaces and boilers.
<i>Next Action</i>	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).

Product **Window Coverings (Blind Cords)**

Staff Contact Balci-Sinha, Rana

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

Mandatory Standard(s) ANPR published in January 2015.

Purpose To revise the standard to reduce strangulation hazards associated with window covering cords.

Activities Staff hosted a WCMA technical meeting on August 2, 2016. After the meeting, WCMA committed to revising their standard, by initiating a project in ANSI’s project initiation system. WCMA currently has an open ballot item that underwent public review in early 2016. This ballot item is limited to the addition of cleats to comply with the Canadian standard (CAN/CSA-Z600-14 *Safety of corded window covering products*) paragraphs 3.05.5, 4.3A, and 5.2.11 and to add a “Safe for Kids” designation.

Other staff activities during the reporting period primarily pertain to the two contracts and a task order associated with the open rulemaking: (1) a technical feasibility and cost improvement analysis of currently available safer technologies for window coverings, (2) a focus group study regarding installation, use, and maintenance of safety devices, primarily cord cleats and tension devices, and (3) cost analysis of cordless window covering options.

Next Action Staff will participate in the next WCMA steering committee meeting, scheduled in 1st quarter FY2017 and will continue to provide technical assistance to WCMA. Staff will also be developing and preparing a briefing package for a NPR scheduled for FY 2017.