



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

This document has been electronically
approved and signed.

Memorandum

Date: May 20, 2020

TO: The Commission
Alberta E. Mills, Secretary

THROUGH: Mary T. Boyle, Executive Director
John G. Mullan, General Counsel

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

SUBJECT: Voluntary Standards Activities Fiscal Year 2020 Mid-Year Report

Attached is U.S. Consumer Product Safety Commission (CPSC) staff's Voluntary Standards Activities FY 2020 Mid-Year Report (October 1, 2019– March 31, 2020). If you have any questions, please contact Patricia Edwards at: 301-987-2224, or at: pedwards@cpsc.gov.

VOLUNTARY STANDARDS TRACKING ACTIVITY REPORT



**FY 2020 MID-YEAR REPORT
(October 1, 2019–March 31, 2020)**

**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, 2019 – March 31, 2020

SUMMARY

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

The Voluntary Standards Tracking Activity Report (VSTAR) is issued bi-annually as: (1) a Mid-Year Report, covering the period from October 1 through March 31, and as (2) an Annual Report of the CPSC fiscal year, which covers the period from October 1 to September 30. This document is the FY 2020 Mid-Year Report.

The VSTAR contains a section for each product or product area associated with voluntary standards work, as outlined in the FY 2020 CPSC Operating Plan (FY 2020 Op Plan). The FY 2020 Op Plan outlines 78 different products or product areas, of which staff is, or is expected to be, actively involved in the development of associated voluntary standard(s) during the fiscal year. Thirty-four CPSC staff members serve as designated representatives for the standards work that covers the 78 products outlined in this report. The VSTAR product sections include the name of CPSC staff leading each activity, the name(s) and designation(s) of the standards associated with the product, the purpose of staff's involvement, any associated mandatory standard or regulation, the activity by staff during the reporting period, and staff's next actions and recommendations associated with the voluntary standard. For additional information on specific activities, and the meeting logs, check the CPSC website.

This report also includes a table listing the standards to which the staff contributed in the development of a new or updated version during the reporting period. Any updated standards are also reflected in the product sections of this report.

Voluntary standards activities are handled by various standards developing organizations (SDOs), most of which are accredited by the American National Standards Institute (ANSI). The majority of

the standards discussed in this report are developed by ASTM International (ASTM) or Underwriters Laboratories Inc. (UL). The standards covered in this report provide safety provisions addressing potential hazards associated with consumer products found in homes, schools, and recreation areas.

UPDATED STANDARDS

Table 1 lists the 17 revised voluntary safety standards in which CPSC staff was actively engaged in developing, and that were approved and/or published during the period October 1, 2019 to March 31, 2020.

**Table 1: New or Revised Voluntary Standard Published
October 1, 2019–March 31, 2020**

Product	SDO	Standard Designation
Amusement Rides - Ownership, Operation, Maintenance, and Inspections	ASTM	F770-19
Amusement Rides - Practice for Measuring the Dynamic Characteristics	ASTM	F2137-19
Amusement Rides - Standard Practice for Auditing	ASTM	F2974-20
Batteries (Portable Lithium)	NEMA	ANDI C18.3M Part 2-2019
Bedside Sleepers	ASTM	F2906-19
Candles (Glass Containers)	ASTM	F2179-20
Children's Chairs and Stools	ASTM	F2613-19
Commercial Cribs	ASTM	F2710-19
Flammable Refrigerants (in Electric Heat Pumps, Air-Conditioners and Dehumidifiers)	UL	UL/CSA 60335-2-40 3rd Ed
Hand-Held Carriers	ASTM	F2050-19
Home Playground Equipment	ASTM	F1148-20
Infant Swings	ASTM	F2088-19
Playground Surfacing (Standards Guide)	ASTM	F2223-19a
Playground Surfacing (Laboratory Impact Testing Method)	ASTM	F3351-19
Portable Bed Rails	ASTM	F2085-19
Sling Carriers	ASTM	F2907-19
Standard for Smoke Alarms	UL	217 9th Ed (1/6/2020)

VOTING AND LEADERSHIP ROLES ON VOLUNTARY STANDARDS

In accordance with 16 CFR part 1031, “*Commission Participation and Commission Employee Involvement in Voluntary Standards Activities*,” the VSTAR report includes information about staff voting and leadership activities. In the first half of FY 2020, there were two new approvals for leadership and three approvals for voting for FY 2020. There was also one renewal request for leadership and one renewal for voting that were approved during the reporting period. Below is a list of the requests that were approved in the first half of FY 2020.

- Scott Ayers – New approval (leadership on ANSI CSA Z21, Gas Ranges)
- Arthur Lee - New approval (leadership on UL 1042, Electric Room Heaters)
- Steve Harsanyi – New approval (voting on ASTM F15.77, Adult Magnets)
- Allyson Tenney – New approval (voting on ASTM F08.22, Tent Flammability)
- Celestine Kish – New approval (voting on ASTM F15.18, Bassinets/Cradles)
- Hope Nesteruk - Renewal (leadership on ASTM F15.18, Non-full-size Cribs/Play Yards)
- Janet Buyer – Renewal (voting on UL and PGMA standards for Portable Generators)

ORGANIZATIONAL ABBREVIATIONS

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

AATCC	American Association of Textile Chemist and Colorists
AFSL	The American Fireworks Standards Laboratory
AHFA	American Home Furnishing Alliance
AHRI	Air Conditioning, Heating and Refrigeration Institute
ANSI	The American National Standards Institute <ul style="list-style-type: none">• ANS – American National Standard (Approved by ANSI)
APA	American Pyrotechnics Association
APSP	The Association of Pool and Spa Professionals
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASTM	ASTM International
BIFMA	Business and Institutional Furniture Manufacturing Associations

CAN	Health Canada Regulation
CANENA	Council for Harmonization of Electrotechnical Standards of the Nations in the Americas
CSA	CSA Group (formerly Canadian Standards Association) <ul style="list-style-type: none"> • TSC – Technical Subcommittee • TC – Technical Committee
EN	European Nation
ICC	International Code Council
IEC	International Electrotechnical Commission
IEEE	The Institute of Electrical and Electronics Engineers
ISO	International Organization for Standardization <ul style="list-style-type: none"> • TAG – Technical Advisory Group • TC – Technical Committee
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association <ul style="list-style-type: none"> • NEC – National Electrical Code • TIA – Technical Interim Agreement
NFSI	National Floor Safety Institute
NIST	National Institute of Standards and Technology
NOCSAE	National Operating Committee on Standards for Athletic Equipment
OPEI	Outdoor Power Equipment Institute
PGMA	Portable Generator Manufacturers Association
PHTA	Pool & Hot Tub Alliance
ROHVA	Recreational Off-Highway Vehicle Association
SAE	Society of Automotive Engineers
SVIA	Specialty Vehicle Institute of America

UL Underwriters Laboratories Inc.

- STP – Standards Technical Panel

WCMA Window Covering Manufacturers Association

Table of Contents

Additive Manufacturing/3D Printing	9
Adult Portable Bed Rails	10
All-Terrain Vehicles (ATVs)	11
Amusement Rides, Trampoline Parks and Adventure Attractions	12
Baby Changing Products	13
Bassinets/Cradles	14
Bath Tubs (Adult)	15
Batteries, Fire (High-Energy Density)	16
Batteries, Ingestion (Button)	17
Bedside Sleepers	18
Bicycles	19
Booster Seats	19
Candles and Candle Accessories	20
Carbon Monoxide (CO) Alarms	21
Carriages and Strollers	22
Children’s Folding Chairs and Stools	23
Child-Resistant Packages (CRP)	24
Clothes Dryers	24
Clothing Storage Units	25
Commercial Cribs	26
Connected Products/Smart Products/Internet of Things (IoT)	27
Crib Bumpers (Infant Bedding)	27
Crib Mattresses (including Supplemental and Aftermarket Mattresses)	28
Expansion Gates and Expandable Enclosures	30
Fireworks	31
Flammable Refrigerants	31
Flame-Mitigation Devices (FMDs) on Disposable Fuel Containers	33
Flooring (Slips, Trips, and Falls)	34
Frame Child Carriers	34
Full-Size Cribs	35
Gas Appliances, CO Sensors (formerly Furnaces – CO Sensors)	36
Gas Grills	36
Gasoline Containers, Child Resistance	37
Gasoline Containers, Flame-Mitigation Devices (FMD)	38
Hand-Held Infant Carriers	39
High Chairs	40
Infant Bath Seats	41
Infant Bath Tubs	42
Infant Bouncer Seats	42
Infant Inclined Sleep Products	43
Infant Swings	44
Infant Walkers	45
Liquid Laundry Packets	45
LP Gas Outdoor Fire Pits	46

Magnet Sets (non-toys).....	47
Mowers	48
Nanotechnology	48
National Electrical Code	50
Non-Full-Size Cribs and Play Yards.....	51
Playground Equipment (Home)	52
Playground Equipment (Public).....	52
Playground Surfacing.....	53
Pools, Portable (Child Drowning).....	55
Portable Bed Rails (Children’s)	55
Portable Generators.....	56
Portable Hook-On Chairs.....	57
Pressure Cookers.....	58
Recreational Headgear Sensors.....	58
Recreational Off-Highway Vehicles (ROVs)	59
Safety Locks and Other Household Child Inaccessibility Devices	60
Self-Balancing Scooters and Light Electric Vehicles	60
Sling Carriers (Infant and Toddlers).....	61
Smoke Alarms.....	62
Soft Infant and Toddler Carriers	63
Sports Protective Gear/Football Helmets.....	64
Spray Polyurethane Foam (SPF) Insulation.....	65
Stationary Activity Centers.....	66
Swimming Pools/Spas, Drain Entrapment.....	67
Swimming Pools/Spas Safety, Vacuum Relief System	67
Table Saws	68
Tents.....	69
Toddler Beds.....	69
Torch Fuel and Lamp Oil.....	70
Toys.....	71
Upholstered Furniture	71
Washing Machines.....	72
Wearables.....	73
Window Coverings	74

***CPSC Staff Voluntary Standards Activities
FY 2020 Mid-Year Report
(October 1, 2019–March 31, 2020)***

Additive Manufacturing/3D Printing

Staff Contact Thomas, Treye

Voluntary Standard(s) *Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers* (UL 2904, 1st Edition)
ISO/ASTM WD 52932 (potential new joint ISO and ASTM standard for determining the particle and chemical emission rates from desktop 3D printer material extrusion)
ASTM WK69730 (potential new standard for wired directed-energy deposition processes)

Mandatory Standard(s) N/A

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

Purpose To work with UL, ASTM, CSA, and other SDOs on the development of standards for Additive Manufacturing and 3D Printers to address the hazards associated with 3D printed products and the 3D printing process.

Activities ASTM is balloting many guides and standards related to additive manufacturing and 3D printing, with only a limited number pertaining to consumer products. In November 2019, ASTM issued a main committee ballot with an item for wired directed-energy deposition processes; and in December 2019, ASTM issued a subcommittee ballot with an item for determining particle and emission rates from desktop 3D printers. Staff reviewed these ballot items, and at the end of the reporting period, each has unresolved negative votes.

In February 2020, staff submitted letters to UL, ASTM, and CSA, requesting the development of new standards for additive manufacturing and 3D printing with a focus on consumer safety including both mechanical and chemical aspects.

In February 2020, staff met with ASTM and discussed both wearable technologies and additive manufacturing/3D printing. At the meeting, ASTM informed staff that it is trying to speed up the development of standards through research. ASTM is using their Centers of Excellence model for Additive Manufacturing. Additionally, ASTM pointed out that, for some applications of additive manufacturing/3D printing, such as aerospace and medical, supplemental requirements will be needed, in addition to horizontal standards.

Next Action Staff will continue to work with stakeholders to develop standards for additive manufacturing and 3D printing.

Adult Portable Bed Rails

Staff Contact Dayal, Vineed

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

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

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

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

Activities During the reporting period, staff completed testing of various adult bed rails for compliance to the standard. Staff anticipates sharing the testing results with the ASTM subcommittee during the next meeting.

In February 2020, ASTM appointed a new subcommittee chair to replace the previous chair who passed away in fall 2019. Because of the gap in time between chairs, there was a delay in scheduling a subcommittee meeting to discuss staff's letter from September 2019, which raised concerns about discrepancies found in the standard.

Next Action Staff will participate in the ASTM subcommittee meeting scheduled for spring 2020. At the meeting, staff expects to discuss the issues raised in staff's September 2019 letter and the bed rail testing results. In addition, the Commission has directed staff to provide a briefing package addressing the petition in FY 2020.

All-Terrain Vehicles (ATVs)

Staff Contact Paul, Caroleene

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

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

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

Purpose To work with SVIA to revise the standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels to reduce the hazards associated with ATVs.

Activities On October 1, 2019, staff sent a letter to SVIA (as well as to other Off-Highway Vehicle SDOs, OPEI, and ROHVA – see section on Recreational Off-Highway Vehicles below) and included a spreadsheet outlining staff’s preliminary analysis of the 84 redacted in-depth investigation reports (IDIs) that were supplied to the SDOs in FY 2019. In December 2019, although the standards in question have not formally been opened for revision, staff participated in a meeting with members of SVIA (along with OPEI, and ROHVA) to discuss staff’s preliminary analysis of the IDIs. These IDIs pertain to fire or debris penetration hazards in off-highway vehicles. The fire issues include ATVs, thus SVIA participated. The meeting resulted in general agreement to focus on the two fire-related categories with the most IDIs and recalls: fuel systems and engine/exhaust heat.

On March 25, 2020, staff sent a follow-up letter to the three SDOs that summarized the December meeting results, and asked for another meeting to discuss potential requirements for fuel systems and engine/exhaust heat management.

Staff also continued research and development work on ATV stability/handling and occupant protection. In November 2019, staff informed SVIA of the publication of a report titled, “ATV Rollover Tests and Verification of a Physical Rollover Simulator,” on the CPSC website. Some of the information in the report was provided to SVIA at a meeting in June 2019 (at which data from published reports on ATV stability and handling were also discussed). Currently, staff is preparing another report on the evaluation of occupant protection device (OPD) performance on ATVs.

Next Action Staff intends to schedule a meeting with the SDOs to discuss the development of requirements to address fire hazards in ATVs. Staff also will publish the report on

the evaluation of OPD performance on ATVs and will inform SVIA of its publication.

Amusement Rides, Trampoline Parks, and Adventure Attractions

Staff Contact McCallion, Richard

**Voluntary
Standard(s)**

Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices (ASTM F770-19)
Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices (ASTM F1193-18a)
Practice for Measuring the Dynamic Characteristics of Amusement Rides (ASTM F2137-19)
Standard Practice for Auditing Amusement Rides and Devices (ASTM F2974-20)
Standard Practice for Design of Amusement Rides and Devices (ASTM F2291-19e¹)

**Mandatory
Standard(s)**

N/A

**Standard(s)
Update**

ASTM F2974-20, the latest revision to the *Standard Practice for Auditing Amusement Rides and Devices*, was published in February 2020, and includes revisions to the scope, references, and requirements for auditors. Additionally, a non-mandatory appendix was added, defining classes of inspectors and auditors.

ASTM F2137-19, the latest revision to the *Practice for Measuring the Dynamic Characteristics of Amusement Rides* was published in November 2019, and includes revisions to the references.

ASTM F770-19, the latest revision to the *Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices* was published in October 2019, and includes revisions to the maintenance program requirements and a new requirement for the performance of welding.

Purpose

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

Activities

Staff participated in the ASTM F24 subcommittee meetings on October 17-19, 2019, in San Diego, CA. The Evolution (EVO) I task group reviewed current plans to address corrosion hazards relating to design/engineering. The ongoing work in ASTM F2291 includes the prevention of water pooling, corrosion detection, and prevention of internal structural failures. The EVO II task group, working on corrosion issues relating to manufacturing/operations/maintenance,

discussed ongoing work in ASTM F770 to add requirements for document retention.

On December 27, 2019, ASTM F24 issued a ballot containing five items for F2291, and one item for F770. All six ballot items received negative votes and comments. The ballot item for F770 included new language on document retention. Staff wrote a letter regarding this ballot item on January 27, 2020, suggesting that the new language should clarify that the document retention policy is to be considered a minimum.

Staff participated in the ASTM F24 subcommittee meetings on February 12-15, 2020, held in New Orleans, LA. Ballot results and other matters were discussed at these meetings.

Next Action Staff will continue to participate on F24 committees, including attendance at the next committee meetings scheduled for October 2020, in Atlanta, GA.

Baby Changing Products

Staff Contact Nesteruk, Hope

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

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

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

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

Activities In November 2019, staff reviewed and analyzed incident data associated with baby changing products, where only two new incidents were reported, with no new hazard patterns. The results of staff's review were shared with ASTM.

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

Bassinets/Cradles

Staff Contact Kish, Celestine

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

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

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

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

Activities On October 6, 2019, ASTM issued a ballot closing report, reviewing the results of four ballot items from a September 2019 ballot related to the bassinet standard. Two of the items were follow-up ballots to resolve negative votes cast on an earlier mattress definition ballot item. The other two ballot items pertained to folding requirements and baby box lid terminology and requirements. The two former items passed (the subcommittee's non-persuasive findings of the negatives were upheld). The latter two items had negative votes, which were later determined to be persuasive.

Staff participated in the ASTM subcommittee meeting on October 23, 2019, where the results of the September 2019 ballot were discussed. Baby boxes, stability, and ad hoc language task group chairs also provided reports.

On December 12, 2019, staff sent a letter to the bassinet subcommittee chairman, Scott Lewis, and the ASTM F15 main committee chairman, Rick Rosati. The letter expressed concerns about the safety of various infant sleep products and staff's belief that in-bed sleepers and compact bassinets should not be included in the bassinet/cradle voluntary standard, in keeping with the recent Commission Supplemental Notice of Proposed Rulemaking on Infant Sleep Products. Mr. Rosati replied on December 13, 2019, via email, and suggested a teleconference including staff, himself, and Mr. Lewis. That teleconference occurred on December 23, 2019, and included other subcommittee members. During the meeting, staff reiterated the position stated in the December 12, 2019 letter, and subcommittee members raised questions on how to proceed with these products.

In December 2019, ASTM issued a ballot containing three items concerning the bassinet and cradle standard: (1) baby box water repellency requirements, (2) baby box lid requirements, and (3) upholding a non-persuasive negative vote from a previous ballot regarding including baby boxes in the scope of the standard. The

first two ballot items contained numerous negative votes, which remained unresolved at the end of the reporting period. Staff filed an abstention vote with comment on the second item, and included a copy of the December 12, 2019 letter. The third ballot item passed.

On February 25, 2020 staff participated in an ASTM task group teleconference on compact bassinets. Staff reiterated their assessment that these products should not be included in the bassinet and cradle standard. After much discussion, the task group decided to move forward with a ballot item to include these products.

On March 2, 2020, staff participated in an ASTM task group teleconference regarding baby boxes. The results of the December 2019 ballot were reviewed. New ballot items to address the negative votes were discussed and are expected to go out to ballot in April 2020.

On March 5, 2020, ASTM issued a ballot with two items pertaining to the bassinet and cradle standard. The first item dealt with expanding the scope of the standard to include compact bassinets. The other item revised the warnings language to match the current ad hoc recommendations. The ballot results were not known at the end of the reporting period.

Next Action Staff will review and cast a vote on the ASTM ballot items and participate in upcoming task group meetings, including the next ASTM subcommittee meeting when scheduled. Due to COVID-19, the April 2020 subcommittee meeting was cancelled.

Bath Tubs (Adult)

Staff Contact McCallion, Richard

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

Mandatory Standard(s) N/A

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

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

Activities On November 20, 2019, staff participated in an ASTM F15.03 subcommittee meeting on safety standards for bathtub and shower structures. During the

meeting, the members reviewed the history of F462, and discussed the challenges with reissuing the standard. The scope of the standard (whether it should be specific to the surface type), durability, and research methodology were other subjects discussed. The subcommittee chair proposed several new task groups to undertake much of the expected work.

ASTM held another subcommittee meeting on January 16, 2020. Due to a scheduling conflict, staff did not attend. During this meeting, the scope of the eight new task groups were reviewed.

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

Batteries, Fire (High-Energy Density)

Staff Contact Kadiwala, Jay

Voluntary Standard(s) *Standard for Safety for Lithium Batteries (UL 1642, 5th Edition); Standard for Household and Commercial Batteries (UL 2054, 2nd Edition); Outline of Investigation for Safety of Power Banks (UL 2056, 2nd Edition); Standard for Portable Power Packs (UL 2743, 2nd Edition); Standard for Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications (UL 62133, 2nd Edition) American National Standard for Portable Rechargeable Cells and Batteries— Safety Standard (ANSI C18.2M Part 2-2014); American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard (ANSI C18.3M Part 2-2019); American National Standard for Portable Cells and Batteries (ANSI C18.4M-2017)*

Mandatory Standard(s) N/A

Standard(s) Update American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard (ANSI C18.3M Part 2) was updated during the reporting period to address battery ingestion hazards.

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

Activities

During the reporting period, staff participated in two ANSI C18 subcommittee meetings; an October 2019, 2-day meeting in Rosslyn, VA, and a teleconference in February 2020. Staff has been working with the subcommittee and task group to draft a recommended design guide for use of lithium-ion batteries for inclusion in an annex of ANSI C18.2, Part 2. During the February meeting, the subcommittee discussed changing the proposed draft of ANSI C18.5M, Part 2, from a standard, to an application guide or another document, based on ANSI requirements and other existing standards.

Next Action

Staff will continue to participate in NEMA, UL, IEEE, and other pertinent meetings, to draft, revise, and harmonize requirements to eliminate or reduce overheating and fire hazards in high-energy density batteries.

Batteries, Ingestion (Button)

Staff Contact

Le, Huy

Voluntary Standard(s)

Standard for Safety for Lithium Batteries (UL 1642, 5th Edition);
Standard for Safety for Class 2 Power Units (UL 1310, 7th Edition);
Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies (UL 4200A, 1st Edition)
Standard for Audio, Video, and Similar Electronic Apparatus—Safety Requirements (UL 60065, 8th Edition);
American National Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard (ANSI C18.1M Part 2-2017);
American National Standard for Portable Rechargeable Cells and Batteries—Safety Standard (ANSI C18.2M Part 2-2014);
American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard (ANSI C18.3M Part 2-2019);
American National Standard for Portable Cells and Batteries (ANSI C18.4M-2017)

Mandatory Standard(s)

N/A

Standard(s) Update

American National Standard for Portable Lithium Primary Cells and Batteries - Safety Standard (ANSI C18.3M Part 2) was updated during the reporting period to harmonize with IEC 60086-4 (Safety of Lithium Batteries), to add a “Keep out of reach” icon, and to add warning text to address battery ingestion hazards.

Purpose

To work with the various standard developers to revise button and coin cell battery safety standards and end product standards, for products that use these button and coin cell batteries, to address accidental battery ingestions that can

cause severe injury and death.

Activities

During the reporting period, staff participated in two ANSI C18 subcommittee meetings: an October 2019, 2-day meeting in Rosslyn, VA, and a teleconference in February 2020. In October 2019, the subcommittee discussed warning labels and pictograms for non-lithium chemistry button/coin cells. Staff continued to support keeping “serious injury” and the “/!\WARNING” safety alert symbol and signal word in the warning label as a minimum. In February 2020, the subcommittee again discussed warning labels. Staff continued to support keeping “death” as part of the warning label. Additionally, Energizer, a battery manufacturer, provided a study of ingestion of zinc-air batteries that show to be less hazardous. Staff also reviewed a UL 4200A proposal for minimum screw torque requirements for battery compartment accessibility.

Next Action

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

Bedside Sleepers

Staff Contact

Nesteruk, Hope

Voluntary Standard(s)

Standard Consumer Safety Specification for Bedside Sleepers (ASTM F2906-13(2019))

Mandatory Standard(s)

16 CFR part 1222, *Safety Standard for Bedside Sleepers*

Standard(s) Update

ASTM F2906 *Standard Consumer Safety Specification for Bedside Sleepers* was reaffirmed during the reporting period.

Purpose

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

Activities

On October 21, 2019, CPSC staff participated in a subcommittee meeting on bedside sleepers. During the meeting, ballot results, affirming a re-approval of F2906-13, were reviewed. In addition, the ad hoc language task group provided a report and intends to review the proposed revision with the task group at the next meeting.

The ad hoc language task group met via teleconference on November 21, 2019. The task group reviewed the proposed revisions to the standard to reflect the latest recommendations from the F15 ad hoc task group.

On March 5, 2020, ASTM issued a F15 ballot containing an item for the ad hoc language revision for bedside sleepers. The ballot results were not known at the end of the reporting period.

Next Action The April 2020 subcommittee meeting was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when rescheduled.

Bicycles

Staff Contact Paul, Caroleene

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

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

Standard(s) Update Staff had no activity associated with the revision of any standards associated with this product during the reporting period.

Purpose To develop new or revised ASTM safety standards to reduce or eliminate hazards associated with bicycles and bicycle components.

Activities Staff participated in the ISO U.S. TAG meeting on November 5, 2019, where key discussions included tire/rim issues. Staff also participated in the ASTM F08.10 subcommittee meeting on bicycles on November 6, 2019. During the ASTM meeting, a work item was established to begin developing a new test procedure to test bicycle grips in ASTM F2793. The establishment of this work item is in response to a report of a fatality involving impalement on an exposed handlebar end on a child's bicycle.

Next Action The May ASTM F08 meetings were cancelled due to COVID-19. Staff will attend the next ASTM F08.10 and ASTM F08.96 meetings, when rescheduled.

Booster Seats

Staff Contact Kish, Celestine

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

<i>Mandatory Standard(s)</i>	16 CFR part 1237, <i>Safety Standard for Booster Seats</i>
<i>Standards Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with booster seats.
<i>Activities</i>	To monitor the adequacy of the mandatory standard and its referenced voluntary standard, staff conducted the annual review of incident data associated with booster seats in November 2019 and reported the results of the review to ASTM. No new hazard patterns were reported for this product since the last review.
<i>Next Action</i>	Staff will review, and analyze incident data annually and participate in the next ASTM subcommittee meeting when it is scheduled.

Candles and Candle Accessories

<i>Staff Contact</i>	Ayers, Scott
<i>Voluntary Standard(s)</i>	<i>Standard Test Method for Collection and Analysis of Visible Emissions from Candles as They Burn (ASTM F2326-04(2015))</i> <i>Standard Specification for Candle Fire Safety Labeling (ASTM F2058-07(2015))</i> <i>Standard Specification for Fire Safety for Candles (ASTM F2417-17)</i> <i>Standard Specification for Fire Safety for Candle Accessories (ASTM F2601-18)</i> <i>Standard Specification for Annealed Soda-Lime-Silicate Glass Containers That are Produced for Use as Candle Containers (ASTM F2179-20)</i> <i>Standard Guide for Terminology Related to Candles and Associated Accessory Items (ASTM F1972-19)</i>
<i>Mandatory Standard(s)</i>	Petition CP 04-1 and HP 04-01, Denied September 2014. Commission directed staff to continue to work with ASTM.
<i>Standards Update</i>	<i>Standard Specification for Annealed Soda-Lime-Silicate Glass Containers That are Produced for Use as Candle Containers</i> was updated during the reporting period to ASTM F2179-20, and it includes revisions to clarify that compliance to the standard is needed when glass containers are produced and not when filled with wax.
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions

addressing hazards associated with candles and candle accessories.

Activities

On January 16, 2020, ASTM issued a ballot item for ASTM F2179 on candle glass containers. The ballot passed, and the standard was approved as ASTM F2179-20.

Staff participated in two subcommittee quarterly teleconferences to review recent incidents and recalls during the reporting period. On October 29, 2019, the group reviewed two incidents reported on saferproducts.gov. On January 28, 2020, the group reviewed two CPSC recalls, one European recall, and six incidents reported on saferproducts.gov. The group determined that all issues identified in the three recalls and eight incident reports are addressed in the current standards.

Next Action

Staff will participate in future task group meetings, as scheduled, including a quarterly meeting to review recent incidents and recalls in April, and the September 2020 task group meetings scheduled to take place in Columbus, OH.

Carbon Monoxide (CO) Alarms

Staff Contact

Brookman, Matt

Voluntary Standard(s)

Single and Multiple Station Carbon Monoxide Alarms (UL 2034, 4th Edition)
National Fire Alarm and Signaling Code (NFPA 72, 2019 Edition)

Mandatory Standard(s)

N/A

Standard(s) Update

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

Purpose

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

Activities

During the reporting period, staff worked with the Smoke and CO Alarm Survey project contractor to develop an alternative approach to overcome the lack of responsiveness. OMB approved the new approach in November, and a pilot program launched in December. The pilot program produced a much higher response rate, about 3.5 percent, compared to 0.02 percent. The contractor drafted a summary report of the pilot program that staff is currently reviewing.

In October 2019, staff participated in a CSA TSC meeting on gas furnaces during CSA Committee Week in Cleveland, OH. During the meeting, the TSC formed a working group to look at requirements for CO alarms to be already installed before

gas furnaces can be installed. In November 2019, staff participated in the Carbon Monoxide Summit in Lebanon, NH, where staff presented on CO statistics, and UL staff led a discussion on the current edition of UL 2034.

Next Action CPSC staff will continue working with the contractor in completing the Smoke and CO alarms survey. Staff will continue working with UL, NFPA, and other stakeholders on CO alarms and safety.

Carriages and Strollers

Staff Contact Talcott, Kristen

Voluntary Standard(s) *Standard Consumer Safety Specification for Carriages and Strollers (ASTM F833-19)*

Mandatory Standard(s) 16 CFR part 1227, *Safety Standard for Carriages and Strollers*

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

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

Activities Staff participated in an ASTM subcommittee meeting on October 22, 2019, where the brake accessibility, jogger wheel detachment, and tricycle/stroller task groups provided reports.

Staff also participated a tricycle/stroller task group meeting on October 3, 2019. Discussions included which products should be included in the scope of ASTM F833, and whether these products should be covered under a separate standard. The task group met again on March 9, 2020, where discussion included: the need for consistency with the new ASTM tricycle standard, and which product features should be used to determine whether a product is in or out of scope. Staff also participated in a test weight task group on March 25, 2020, where the members continued the discussion of unacceptable conditions after testing, including whether deformation and tearing should be allowed.

On March 5, 2020, ASTM issued an F15 ballot containing an item regarding stroller combination products. As of the end of the reporting period, the ballot results were not known.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was

cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Children's Folding Chairs and Stools

Staff Contact Lee, Kevin

Voluntary Standard(s) *Standard Consumer Safety Specification for Children's Chairs and Stools (ASTM F2613-19)*

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

Standard(s) Update *Standard Consumer Safety Specification for Children's Chairs and Stools* was updated during the reporting period to ASTM F2613-19 and includes a revision to the scissoring, shearing and pinching requirement.

Purpose To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with children's folding chairs and stools.

Activities On October 21, 2019, staff participated in the ASTM subcommittee meeting, where the attendees discussed the recent ballot item, revising the testing procedure for the scissoring, shearing, and pinching requirement. The ballot item passed, and the revised standard was approved on November 1, 2019.

In December 2019, ASTM published a revised version of F2613, and pursuant to section 104(b)(4)(B) of the CPSIA, ASTM notified the CPSC of this revision on January 7, 2020.

On March 11, 2020, staff submitted a briefing memorandum recommending that the Commission issue a direct final rule updating the reference cited in the Commission's rule for carriages and strollers, 16 CFR part 1232, to reflect ASTM F2613-19. The Commission voted to approve that ASTM F2613-19 be incorporated by reference into the direct final rule. At the end of the reporting period, the updated final rule had not been published in the *Federal Register*.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Child-Resistant Packages (CRP)

Staff Contact Eilbert, Mark

Voluntary Standard(s) *Standard Classification of Child-Resistant Packages (ASTM D3475-18)*
Standard Terminology Relating to Primary Barrier Packaging (ASTM F17-18a)
Standard Test Method for Assessing Non-Metered Restricted Delivery Systems for Liquid Consumer Products (ASTM F3375-19)

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

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

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

Activities Staff participated in the ASTM subcommittee meeting held in October 2019, in Houston, TX. During the meeting, Dr. Lori Dixon, President of Great Lakes Marketing, outlined the results of some children and adult accessibility testing as specified in the Poison Prevention Packaging Act. The subcommittee also discussed a new work item to revise the reference table in ASTM D3475-18.

In February 2020, ASTM issued an F02 committee ballot, including two ballot items on standards where staff are involved. One ballot item, which passed, updated two company names listed in the reference table in ASTM D3475-18. The other ballot item revised the “seal strength” definition found in ASTM F17-18a. This item received a negative vote that remained unresolved at the end of the reporting period.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was canceled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Clothes Dryers

Staff Contact Lee, Arthur

Voluntary Standard(s) *Standard for Electric Clothes Dryers (UL 2158, 5th Edition)*

<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with clothes dryer fires.
<i>Activities</i>	Staff did not have any activities in this area during the reporting period.
<i>Next Action</i>	CPSC staff will complete the incident data analysis and inform UL of the results.

Clothing Storage Units

<i>Staff Contact</i>	Talcott, Kristen
<i>Voluntary Standard(s)</i>	<i>Standard Safety Specification for Clothing Storage Units (ASTM F2057-19)</i> <i>Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s) (ASTM F3096-14)</i>
<i>Mandatory Standard(s)</i>	An advance notice of proposed rulemaking (ANPR) was published in November 2017 (82 FR 56752, Nov. 30, 2017).
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with furniture tip-over incidents.
<i>Activities</i>	During the reporting period, staff participated in several ASTM task group meetings where potential revisions to the standard were discussed: <ul style="list-style-type: none"> • Multiple/loaded drawer task group – October 28, 2019, and March 12, 2020 • Scope task group – October 29, 2019, and March 9, 2020 • Labeling task group – October 30, 2019 • Tip restraint task group – December 3, 2019, and January 24, 2020 • Carpet testing task group – March 16, 2020 • Dynamic load testing task group – March 23, 2020

Staff also participated in a subcommittee meeting on November 7, 2019, at ASTM headquarters in West Conshohocken, PA. The various task groups provided update reports. CPSC staff discussed the results of the initial compliance testing of dresser samples. Staff also outlined the planned contractor work, and shared the focus group questionnaire link with the subcommittee.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Commercial Cribs

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Commercial Cribs (ASTM F2710-19)*

Mandatory Standard(s) 16 CFR part 1219, *Safety Standard for Full-Size Cribs*, and CFR part 1220, *Safety Standard for Non-Full-Size Baby Cribs*

Standard(s) Update *Standard Consumer Safety Performance Specification for Commercial Cribs* was revised to ASTM F2710-19 during the reporting period and includes many formatting and editorial changes throughout the standard.

Purpose To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with cribs in commercial settings, such as hotels and child care centers.

Activities Staff participated in the ASTM F15.57 subcommittee meeting held on October 23, 2019. During the meeting, the subcommittee reviewed ballot results for a previous ballot item containing multiple revisions throughout the standard. One negative vote was withdrawn, and editorial changes were suggested instead. The ballot item passed, and the standard was revised and approved on December 1, 2019.

During the October subcommittee meeting, the group reviewed the incident data provided in FY 2019, and the chairman formed a task group to develop language pertaining to brakes on commercial cribs. Staff will be participating on the task group.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

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

Staff Contact Lee, Doug

Voluntary Standard(s)

Remote Software Updates (UL 5500, 1st Edition),
Software Cybersecurity for Network-Connectable Devices, Part 1: General Requirements (UL 2900-1, 1st Edition)
ASTM WK71003 (potential new standard guide on ensuring safety of consumer connected products)

Mandatory Standard(s)

N/A

Standard(s) Update

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

Purpose

To work with UL, ASTM, and other stakeholders on revising existing standards and developing new standards to address hazards associated with connected consumer products.

Activities

During the reporting period, staff participated in eight meetings of the ASTM F15.75 subcommittee and task groups working on ASTM WK71003. During these meetings, participants worked together on writing the draft standard guide. When completed, the standard guide will outline the safety aspects manufacturers should consider when designing and developing new connected products for consumer use.

In January 2020, staff hosted a meeting with UL cybersecurity experts, where UL staff outlined its new five-level IoT Security Rating certification plan. In March 2020, staff also participated in a UL 2900 teleconference on scoping connected product issues.

Next Action

Staff will continue to work with the ASTM F15.75 subcommittee to complete the draft standard guide for consumer safety of connected products for a future ballot. Staff will continue to work with stakeholders, such as ASTM and UL, to develop or improve voluntary standards for connected products.

Crib Bumpers (Infant Bedding)

Staff Contact Smith, Tim

<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Performance Specification for Infant Bedding and Related Accessories (ASTM F1917-12)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1240 – <i>Safety Standard for Crib Bumpers/Liners (Proposed Rule)</i>
<i>Standard(s) Update</i>	The Commission approved publication of a notice of proposed rulemaking (NPR) for crib bumpers/liners on March 18, 2020.
<i>Purpose</i>	To work with ASTM on revising the standard to: (1) strengthen its safety provisions addressing hazards, and (2) form the basis of a federal standard intended to reduce hazards associated with crib bumpers.
<i>Activities</i>	<p>On October 3, 2019, staff sent a letter to ASTM commenting on a September 2019 ballot item regarding ASTM F1917-12. Staff did not submit a vote, but pointed out errors in the ballot item, noted that many of the balloted revisions align with the recommendations included in staff’s draft proposed rule briefing package, and suggested additional changes for consideration in future revisions to the ASTM standard. In addition to staff’s comment letter, the ASTM ballot item received many negative votes.</p> <p>On October 23, 2019, staff participated in the ASTM F15.19 subcommittee meeting where the ballot results were discussed, and the negative votes were either withdrawn or found to be non-persuasive.</p> <p>On March 18, 2020, the Commission voted (4-0) to approve publication of the crib bumper draft proposed rule with specified changes. The Commission proposed to incorporate by reference ASTM F1917-12, with modifications. The modifications include, among other things, a definition of “crib bumper” and firmness and air flow requirements. The <i>Federal Register</i> notice for the proposed rule was published on April 3, 2020.</p>
<i>Next Action</i>	The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Crib Mattresses (including Supplemental and Aftermarket Mattresses)

Staff Contact Nesteruk, Hope

***Voluntary
Standard(s)***

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

***Mandatory
Standard(s)***

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

***Standard(s)
Update***

Standard Consumer Safety Specification for Crib Mattresses was revised during the reporting period as ASTM F2933-19 and includes a revision to the terminology section.

Purpose

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

Activities

Staff participated in the subcommittee meeting held on October 23, 2019. During the meeting, the task group chairs for the following task groups provided updates: cyclic testing, mattress compression, and non-segmented mattresses.

On December 11, 2019, staff sent a letter to the ASTM subcommittee chairman recommending that the subcommittee consider four issues related to crib mattresses: firmness, cyclic testing, compression, and clarifications to the standard.

On January 16, 2020, ASTM issued an F15 ballot containing a ballot item for crib mattresses providing requirements for aftermarket mattresses sold for use in play yards and non-full-size cribs. The ballot closed in late February 2020, with several negative votes that remained unresolved, at the end of the reporting period.

Staff also participated in another subcommittee meeting, held via teleconference on January 29, 2020. During the meeting, staff discussed the December 2019 letter regarding mattress firmness. In addition, staff provided compression testing results of crib mattresses using fitted sheets.

Staff participated in several task group meetings during the year: mattress compression (January 6, 2020, February 10, 2020); mattress firmness (January 8, 2020, February 13, 2020); and ad hoc language (November 25, 2019, February 13, 2020).

Next Action

The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Expansion Gates and Expandable Enclosures

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures (ASTM F1004-19)*

Mandatory Standard(s) *NPR Safety Standard for Gates and Enclosures 16 CFR part 1239 (84 FR 32346) was published on July 8, 2019*

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

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

Activities The ASTM gates and enclosures subcommittee did not meet during the October 2019 ASTM committee week. After the October committee week, staff asked the subcommittee chair to schedule a subcommittee meeting. The subcommittee chair responded by scheduling a meeting for January 21, 2020.

In October 2019, staff provided the subcommittee with an update of incident data. Included in the data were incidents associated with a new hazard pattern seen on retractable mesh gates.

On December 11, 2019, staff sent a letter to the ASTM subcommittee chair discussing the outstanding issues outlined in the NPR issued in June 2019. In the letter, staff requested that these outstanding topics, warning label location and visual side-pressure indicators, be discussed during the January 21, 2020 subcommittee meeting.

Staff participated in the subcommittee meeting on January 21, 2020. During the meeting, a task group was formed to develop language for the warning label placement. In addition, a task group was formed to review the incidents associated with retractable mesh gates. Staff will serve on both task groups.

On March 5, 2020, ASTM issued a F15 ballot containing a ballot item on gates and enclosures. The ballot item revised the warnings language and specified the placement of warnings for pressure gates that use wall cups. At the end of the reporting period, the results of the ballot were not known.

Staff participated in a visual indicators task group teleconference on March 10, 2020. Staff reviewed with the task group, various options for visual side-pressure indicators, as outlined in staff's letter of December 11, 2019. The subcommittee

chair is expected to forward an item to ASTM balloting regarding visual side-pressure indicators.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Fireworks

Staff Contact Valliere, Rodney

Voluntary Standard(s) *Standard for Construction and Approval for Transportation of Fireworks, Novelties, and Theatrical Pyrotechnics (APA 87-1)*
AFSL Standards for Consumer Fireworks (AFSL 101 – 115, February 2019 Version)

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

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

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

Activities In February 2020, staff participated in an APA meeting including roundtable discussions, where attendees answered technical questions. The status on the U.S. DOT rulemaking incorporating by reference APA 87-1A, B, and C, was also discussed. The U.S. DOT tentatively expects the final rule to be published in summer 2020.

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

Flammable Refrigerants

Staff Contact Ayers, Scott

**Voluntary
Standard(s)**

Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers (UL 60335-2-24, 2nd Edition)
Safety Standard for Refrigeration Systems (ANSI/ASHRAE 15-2019)
Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers (UL 60335-2-40, 3rd Edition)
Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor (UL 60335-2-89, 1st Edition)

**Mandatory
Standard(s)**

N/A

**Standard(s)
Update**

UL/CSA 60335-2-40, *Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers* was revised to Edition 3 and includes significant revisions that allow for flammable refrigerants.

Purpose

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

Activities

Staff participated in five UL 60335-2-89 meetings in October, December, January, February, and March. The UL 60335-2-89 work group is attempting to duplicate many of the requirements for flammable refrigerants contained in the recently approved UL 60335-2-40, 3rd Edition. There are several system types that were not included in UL 60335-2-40, which will be included in UL 60335-2-89.

Staff participated in seven AHRI Safe Transition Task Force (STTF) meetings during October, January, and March. The STTF is focused on educating stakeholders on the transition; identifying gaps or inconsistencies among codes, standards, and state and federal regulations; and developing training modules for technicians.

Staff participated in two ASHRAE Standard 15 meetings in December, and in January at the ASHRAE Winter Conference. ASHRAE Standard 15 serves as an installation code for HVAC and refrigeration equipment. ASHRAE is also developing an installation code specifically for residential applications, currently designated as Standard 15.2. During the ASHRAE Winter Conference, several meetings staff attended focused on flammable refrigerants and the development of UL 60335-2-40, UL 60335-2-89, and ASHRAE Standard 15. The STTF was also mentioned frequently during the conference. ASHRAE Technical Committee 3.1 is interested in further studying odorants in flammable refrigerants, but is looking

for other organizations to co-sponsor the next phase of work.

Next Action Staff continues to participate in the development of codes and standards intended to allow greater quantities of flammable refrigerants in refrigeration and HVAC equipment. Staff intends to participate in a UL 60335-2-89 meeting and an ASHRAE Standard 15, both scheduled for April. Staff will continue to participate on the STTF. The next STTF meeting has not been scheduled.

Flame-Mitigation Devices (FMDs) on Disposable Fuel Containers

Staff Contact Ayers, Scott

Voluntary Standard(s) ASTM WK60590 (potential new standard for FMDs on disposable fuel containers in development)

Mandatory Standard(s) N/A

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

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

Activities Before the reporting period, on September 16, 2019, ASTM issued a ballot to the subcommittee with an item for ASTM WK60590. The ballot closed in October 2019, and passed with comments; therefore, the ballot was automatically included on the next F15 main committee ballot issued January 13, 2020. That ballot received multiple negative comments which the task group found persuasive.

The ASTM task group, led by CPSC staff's Scott Ayers, met three times during the reporting period. In December, the task group reviewed the comments from the September 16, 2019 ballot to the subcommittee. In February, the task group reviewed comments from the January 13, 2020 ballot and began editing the draft standard for a future ballot. In March, the task group continued to edit the draft standard.

Next Action Staff will continue to participate in the task group to edit the draft standard and incorporate all comments to reach a task group consensus to ballot the draft standard to the main committee again. The task group has two meetings scheduled for April.

Flooring (Slips, Trips, and Falls)

Staff Contact Mella, Lawrence

Voluntary Standard(s) *Standard Practice for Validation, Calibration, and Certification of Walkway Tribometers Using Reference Surfaces (ASTM F2508-16e1)*
ASTM WK60578 (potential new standard test method for walkway friction testing)

Mandatory Standard(s) Petition CP 18-2 Floor Coverings

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

Purpose To work with ASTM on developing a new standard or revising the existing standard to reduce or prevent consumer slips, trips, and falls.

Activities In February 2020, staff participated in an ASTM F13 committee meeting in Atlanta, GA. At the meeting, the subcommittee acknowledged the NFSI petition to CPSC. Additionally, a task group reported on efforts to develop a new standard to replace ASTM F2508. The new standard would be based on an industry report recommending new reference surfaces, correlating human slip research to tribometry, and providing a generic framework for citing any slip research in which human subjects ranked and differentiated multiple reference surfaces.

Next Action Staff will participate in the next ASTM F13 committee meeting, which is tentatively scheduled for May or June.

Frame Child Carriers

Staff Contact Lee, Kevin

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

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

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

- Purpose** To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with frame child carriers.
- Activities** Staff participated in the ASTM subcommittee meeting held on October 22, 2019. During the meeting, the ad hoc, scope and warnings task groups provided reports. Each task group has proposed revisions to F2549. As of the end of the reporting period, the subcommittee has not submitted any of the proposed revisions to be balloted.
- Next Action** The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Full-Size Cribs

- Staff Contact** Nesteruk, Hope
- Voluntary Standard(s)** *Standard Consumer Safety Specification for Full-Size Cribs (ASTM F1169-19)*
- Mandatory Standard(s)** 16 CFR part 1219, *Safety Standard for Full-Size Cribs*
- Standard(s) Update** No standards associated with this product were updated during the reporting period.
- Purpose** To work with ASTM on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with full-size cribs.
- Activities** Staff participated in the ASTM subcommittee meeting on October 23, 2019. During the meeting, the subcommittee discussed clarifying the language regarding screws and testing requirements. A task group was formed and staff will participate. A subcommittee member suggested removing the record keeping requirement in the standard because it is redundant with the CPSIA requirement. Staff suggested moving it to a note within the standard.
- Next Action** The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

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

Staff Contact Jordan, Ronald

Voluntary Standard(s)

Gas-Fired Central Furnaces (ANSI Z21.47-2016 / CSA 2.3-2016)
Gas-Fired Low Pressure Steam and Hot Water Boilers (ANSI Z21.13-2017 / CSA 4.9-2017)
Vented Gas-Fired Space Heating Appliances (ANSI Z21.86-2016 / CSA 2.32-2016)

Mandatory Standard(s)

ANPR for Performance Requirements for Residential Gas Furnaces and Boilers, published in the *Federal Register* on August 19, 2019 (84 FR 42847).

Standard(s) Update

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

Purpose

To work with technical committees on revising the standards to strengthen safety provisions addressing hazards associated with carbon monoxide risks due to failure modes, such as disconnected vents and partially blocked vents.

Activities

Staff participated in five CSA meetings during CSA Committee Week in October 2019, in Cleveland, OH. Staff participated in the Joint TC meeting, including the Z21/83 TC on *Standards for Gas-Fired Appliances and Related Accessories*, where the TC voted to disband the working group tasked with developing requirements for CO sensors, despite concerns raised by staff. Staff also participated in TSC meetings for gas heaters, gas furnaces, gas boilers, and gas water heaters. All the TSCs are considering altitude-related requirements to prevent performance and safety issues of appliances tested at high altitudes that are used by consumers at lower altitudes. In addition, the TSC on gas furnaces formed a working group to look at requirements for a CO alarm to be already installed in a furnace before installation of the gas furnace.

Next Action

Staff will continue to participate with CSA and any other SDOs interested in gas appliance safety and CO sensors.

Gas Grills

Staff Contact Ayers, Scott

<i>Voluntary Standard(s)</i>	<i>Outdoor Cooking Gas Appliances (ANSI Z21.58b-2018 / CSA 1.6-2018) Liquefied Petroleum Gas Code (NFPA 58, 2020 Edition)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with CSA on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard addresses hazards associated with gas grills and other outdoor gas cooking appliances.
<i>Activities</i>	<p>Staff participated in two TSC in February 2020, and two TSC working group teleconferences held in March. During the TSC meetings, the attendees reviewed the proposals from various established working groups for possible industry review and considered establishing or re-establishing working groups to develop proposals for future considerations. During the TSC working group meetings, the work to remove ambiguity with requirements that prevent the storage of a spare LP-gas cylinder under a grill firebox was completed. The working group forwarded a proposal to the TSC for future consideration.</p> <p>Additionally, staff prepared and submitted a comment to a proposed NFPA 58 TIA that would remove a recently included requirement for fillers of LP-gas cylinders to inspect the valve for damage or excessive wear.</p>
<i>Next Action</i>	Staff will continue to participate on the TSC, including participation in a meeting proposed to be held sometime in the summer. Staff will continue to monitor NFPA 58.

Gasoline Containers, Child Resistance

<i>Staff Contact</i>	Ayers, Scott
<i>Voluntary Standard(s)</i>	<i>Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use (ASTM F2517-17) Standard Specification for Portable Fuel Containers (ASTM F852-19 / F852M-19)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1460, <i>Children's Gasoline Burn Prevention Act Regulation</i>

Standard(s) Update	No standards associated with this product were updated during the reporting period.
Purpose	To work with ASTM on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with the poisoning of children from gasoline associated with portable fuel containers.
Activities	In November 2019, CPSC hosted a subcommittee meeting where a task group was empaneled to work on revising the adult testing requirements of F2517. During the meeting, the subcommittee asked for participation from CPSC's Office of Compliance so that any potential re-testing requirements could be understood. In March, on a subcommittee teleconference, the kick-off of the task group was postponed until after the coronavirus travel restrictions are lifted. The task group plans to kick off the work with a face-to-face meeting near Detroit, MI, to look at various gasoline container samples from different eras.
Next Action	Staff will participate in the task group kick-off meeting when scheduled. Staff plans to participate in all subcommittee meetings that may be scheduled.

Gasoline Containers, Flame-Mitigation Devices (FMD)

Staff Contact	Ayers, Scott
Voluntary Standard(s)	<i>Standard Specification for Portable Fuel Containers (ASTM F852-19 / F852M-19)</i> <i>Standard Specification for One Time Use Portable Emergency Fuel Containers (PEFC) for Use by Consumers (ASTM F2874-12)</i> <i>Standard Specification for Flame Mitigation Devices on Portable Fuel Containers (ASTM F3326-19a)</i> <i>Standard for Metal Safety Cans (UL30, 9th Edition)</i>
Mandatory Standard(s)	N/A
Standard(s) Update	No standards associated with this product were updated during the reporting period.
Purpose	To work with ASTM on revising the standards to strengthen safety provisions addressing hazards associated with flammable liquid containers.
Activities	On January 16, 2020, ASTM issued a ballot item for ASTM F2874 to re-approve the standard for emergency one-time use gasoline containers.

UL intends to withdraw UL 1313, *Standard for Nonmetallic Safety Cans for Petroleum Products* in December 2020 based on the belief that ASTM F852 is superior and should cover products that would be listed to UL 1313.

Additionally, industry believes that “jerry cans” should also be covered under ASTM F852. To include “jerry cans” in ASTM F852, the subcommittee intends to expand the scope of ASTM F852 to include metal containers. UL will also fold several UL standards for various containers into a new version of UL 30 to cover containers, such as safety cans which, are not covered in ASTM F852.

Staff participated in two ASTM F15.10 subcommittee meetings in November 2019, at CPSC’s Rockville, MD location, and in March 2020, via teleconference. The purpose of these meetings, in part, was to expand the scope and requirements in ASTM F852 and ASTM F3326 to include metal containers.

Additionally in November, the subcommittee agreed to ballot ASTM F2874 for re-approval; and on January 16, 2020, ASTM balloted an item to re-approve ASTM F2874. The ballot received negative votes, in particular, pointing out the lack of an FMD on containers that meet ASTM F2874. The subcommittee found the negative votes to be non-persuasive.

A flow-out test for FMDs was proposed at the March subcommittee teleconference, but the subcommittee could not reach consensus. The subcommittee will continue to develop a flow-out requirement for FMDs.

Staff participated in five UL 30 STP meetings in October, December, January, February, and March. Requirements for FMDs are being developed to be included in the future version of UL 30.

Next Action

Staff will continue to participate in ASTM F15.10 and UL 30 meetings that pertain to FMD requirements, including requirements for metal containers, flow out requirements for FMDs, and the development of FMD requirements for UL 30.

Hand-Held Infant Carriers

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Hand-Held Infant Carriers (ASTM F2050-19)*

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

***Standard(s)
Update***

Standard Consumer Safety Performance Specification for Hand-Held Infant Carriers was updated during the reporting period to ASTM F2050-19 and includes a revision to the instructional literature requirements regarding shopping cart falls.

Purpose

To work with ASTM on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with hand-held carriers.

Activities

Staff participated in ASTM subcommittee meetings for handheld carriers held on October 21, 2019, where ballot results were reviewed. During the meeting, the subcommittee found the negative votes on the ad hoc language ballot item to be persuasive. The ballot item adding a warning regarding carriers placed on shopping carts received negatives that were either withdrawn or deemed to be editorial. Thus, the ballot item passed. In addition, the following task groups reported during the subcommittee meeting:

- Carry handle testing – a new recommendation to add static and dynamic tests for non-rigid, non-rotating handles was discussed, and further task group work and laboratory testing is expected to follow.
- Warnings – The task group will continue work on the ad hoc language warnings for reballotting.
- Incident data - The subcommittee chair requested updated incident data, which the task group will review at the next meeting.

In December 2019, ASTM approved a revised version of F2050, which was published in January 2020. Pursuant to section 104(b)(4)(B) of the CPSIA, on February 4, 2020, ASTM notified the CPSC of this revision. Staff drafted a briefing memorandum for Commission consideration regarding the revision of 16 CFR part 1225. At the end of the reporting period, the briefing memorandum had not been submitted to the Commission.

Next Action

The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled. In addition, staff will submit a briefing memorandum to the commission, regarding the updated ASTM standard.

High Chairs

Staff Contact Marques, Stefanie

<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for High Chairs (ASTM F404-18a)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1231, <i>Safety Standard for High Chairs</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing high chair hazards.
<i>Activities</i>	Staff participated in the subcommittee meeting held on October 21, 2019, where the subcommittee reviewed ballot results and proposals for reclining high chair ballot items. On January 16, 2020, ASTM issued an F15 ballot containing a ballot item on high chairs. The ballot item, revising the stability testing requirements of reclining high chair products, received negative votes, one of which the subcommittee chair found to be persuasive. On March 5, 2020, ASTM issued another F15 ballot that contained two items on the high chair standard pertaining to reclining high chairs. At the end of the reporting period, the results of the ballot were not known.
<i>Next Action</i>	The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Infant Bath Seats

<i>Staff Contact</i>	Kish, Celestine
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Infant Bath Seats (ASTM F1967-19)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1215, <i>Safety Standard for Infant Bath Seats</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard and the corresponding federal mandatory

standard maintain adequate safety levels addressing hazards associated with infant bath seats.

Activities To monitor the adequacy of the mandatory standard and its referenced voluntary standard, staff conducted the annual review of incident data associated with bath seats in January 2020 and communicated the results to ASTM. No new hazard patterns were reported for this product since the last review.

Next Action Staff will continue to review incident data on infant bath seats and will participate in the next subcommittee or task group meeting, when scheduled.

Infant Bath Tubs

Staff Contact Kish, Celestine

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

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

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

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

Activities To monitor the adequacy of the mandatory standard and its referenced voluntary standard, staff conducted the annual review of incident data associated with infant bath tubs in January 2020 and communicated the results to ASTM. No new hazard patterns were reported for this product since the last review.

Next Action Staff will continue to review incident data on infant bath tubs and will participate in the next ASTM subcommittee meeting, when scheduled.

Infant Bouncer Seats

Staff Contact Wanna-Nakamura, Suad

Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Infant Bouncer Seats (ASTM F2167-19)</i>
Mandatory Standard(s)	16 CFR part 1229, <i>Safety Standard for Infant Bouncer Seats</i>
Standard(s) Update	No standards associated with this product were updated during the reporting period.
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with infant bouncer seats.
Activities	There has been no activity associated with the infant bouncer standard in the reporting period.
Next Action	Staff will review incident data associated with infant bouncers and attend the next subcommittee meeting, when scheduled.

Infant Inclined Sleep Products

Staff Contact	Kish, Celestine
Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Infant Inclined Sleep Products (ASTM F3118-17a)</i>
Mandatory Standard(s)	Supplemental NPR <i>Safety Standard for Infant Sleep Products (84FR 60949)</i>
Standard(s) Update	A supplemental notice of proposed rulemaking for the <i>Safety Standard for Infant Sleep Products</i> published in the <i>Federal Register (84 FR 60949)</i> on November 12, 2019.
Purpose	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards, and form the basis of a federal standard intended to reduce hazards associated with inclined sleep products.
Activities	Staff submitted a supplemental notice of proposed rulemaking package to the Commission in October 2019, and it published in the <i>Federal Register</i> on November 12, 2019. The supplemental NPR proposes that any product intended for infant sleeping must meet one of the current mandatory infant sleep product safety standards or would be required to meet the CPSC bassinet/cradle standard.

Staff participated in the ASTM subcommittee meeting held on October 21, 2019. During the meeting, staff discussed the Supplemental NPR.

On December 12, 2019, staff sent a letter to the bassinet subcommittee chairman, Scott Lewis, and the infant inclined sleep products chairman, Rick Rosati. The letter expressed concerns about the safety of various infant sleep products. Mr. Rosati replied via email on December 13, 2019, and suggested a teleconference, including staff, himself, and Mr. Lewis. That teleconference occurred on December 23, 2019, and it included other ASTM members. During the meeting, staff reiterated the position stated in the letter of December 12, 2019, and subcommittee members raised questions about how to proceed with some of these products.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Infant Swings

Staff Contact Kish, Celestine

Voluntary Standard(s) *Standard Consumer Safety Specification for Infant Swings (ASTM F2088-19)*

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

Standard(s) Update *Standard Consumer Safety Specification for Infant Swings* was updated to ASTM F2088-19 during the reporting period and includes a new requirement and test method for products that have tethered straps for the restraint system.

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

Activities Staff participated in the ASTM subcommittee meeting held on October 22, 2019, where the ballot results for three items pertaining to infant swings were discussed: tethered strap terminology and test method, introduction revision, and scope and terminology revision. The tethered strap item passed, but the other two items received persuasive negative votes.

In November 2019, ASTM approved and published a revision to the infant swing standard, F2088-19, to include the new requirement and test method for tethered straps.

On March 3, 2020, ASTM issued an F15 ballot, containing an item to revise the infant swing standards warning/labeling language to be consistent with the ad hoc language already developed.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Infant Walkers

Staff Contact Mordecai, Benjamin

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

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

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

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

Activities There has been no activity associated with the infant walker standard in the reporting period.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Liquid Laundry Packets

Staff Contact Hurley, Jill

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

Mandatory Standard(s) N/A

Standard(s)

Update

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

Purpose

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

Activities

On October 8, 2019, staff sent a data report to ASTM regarding hospital emergency room visits associated with liquid laundry packets. The data report updates the post implementation phase of data provided to ASTM.

Next Action

Staff will participate in the next task group meeting, which has not been scheduled.

LP Gas Outdoor Fire Pits

Staff Contact

Kim, Yeon

Voluntary

Standard(s)

Outdoor Decorative Gas Appliances (ANSI Z21.97-2017/CSA 2.41-2017)
Liquefied Petroleum Gas Code (NFPA 58, 2020 Edition)

Mandatory

Standard(s)

N/A

Standard(s)

Update

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

Purpose

To work with CSA on revising the standard to strengthen its safety provisions and to ensure that the voluntary standard addresses hazards associated with outdoor gas decorative appliances, such as fire pits.

Activities

On October 30, 2019, staff participated in the TSC meeting on Decorative Appliance standards held in Cleveland, OH, where two task forces were established. The first task force was assigned to develop a change in the requirements for glass barriers; staff participated in a meeting for that task force in January, where the task force discussed the definition of the “glass viewing area” and adding a safety label instead of the barrier requirement. The second task force was in response to staff’s September 2019 letter requesting the TSC to develop new requirements for the venturi. To date, the venturi task force has not met.

Additionally, staff prepared and submitted a comment to a proposed NFPA 58 TIA that would remove a recently included requirement for fillers of LP-gas cylinders to inspect the valve for damage or excessive wear.

Next Action Staff will continue to participate on the TSC and in the task force meetings. Staff expects a task force meeting on venturi requirements to be scheduled in the near future. Staff will continue to monitor NFPA 58.

Magnet Sets (non-toys)

Staff Contact Harsanyi, Steve

Voluntary Standard(s) ASTM WK68963 (potential standard for marketing and labeling of adult magnet sets containing small loose, powerful magnets)

Mandatory Standard(s) Petition CP 17-1 Requesting Rulemaking for Magnet Sets

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

Purpose To work with ASTM to develop a standard to address the hazard associated with ingestion of magnets from magnet sets.

Activities Staff participated in several ASTM subcommittee and task group teleconferences associated with magnet sets on October 10, 2019, October 31, 2019, November 18, 2019, November 21, 2019, November 25, 2019, March 4, 2020, and March 19, 2020.

These meetings concerned various labeling and packaging requirements to consider for the draft standard. In addition, the scope, and whether the standard should include performance requirements, were also discussed in many of the meetings.

In October 2019, staff wrote a letter to ASTM, expressing concerns that only relying on warning information will not effectively reduce the hazard associated with the ingestion of magnets from magnet sets. In October, staff also received approval to vote on ASTM ballot items associated with magnet sets, and staff submitted a negative vote on the initial draft standard, balloted in December 2019. Staff's comments on the ballot echoed the concerns voiced in staff's October 2019 letter.

In addition to staff's vote, the ballot item received eight other negative votes. The disposition of the negative votes was not discussed at the March 4, 2020 subcommittee meeting, but ASTM's website noted that one of the negatives was marked "persuasive" on March 27, 2020. Due to the persuasive negative, the item was removed from ballot.

On March 31, 2020, staff supplied the subcommittee with a summary spreadsheet of incident data, including reports from January 1, 2006 through December 31, 2019. The subcommittee requested the data. Staff explained the limitations of the spreadsheet and indicated that staff is working actively on a briefing package in response to the petition CP 17-1, which likely will include more specific findings from the incident data.

Next Action Staff will continue to participate in future ASTM subcommittee and task group meetings. Staff also expects to vote and comment on the next ballot that is anticipated to be issued in May 2020.

Mowers

Staff Contact Paul, Caroleene

Voluntary Standard(s) *Standard for Consumer Turf Care Equipment – Pedestrian-Controlled Mower and Ride-on Mowers – Safety Specification (ANSI/OPEI B71.1-2020)*

Mandatory Standard(s) 16 CFR Part 1205 *Safety Standard for Walk-Behind Power Lawn Mowers* and Petition CP 19-1 on *Walk Behind Power Lawn Mowers*

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

Purpose To work with OPEI on revising their standards to address hazards associated with walk-behind power lawn mowers.

Activities There has been no activity associated with mower standards in the reporting period.

Next Action Staff will complete and submit a briefing package to the Commission in response to petition CP 19- 01. In addition, staff intends to engage OPEI on the further development of their voluntary standard before the end of the fiscal year.

Nanotechnology

Staff Contact Matheson, Joanna

**Voluntary
Standard(s)**

New Guide for Detection and Characterization of Manufactured Silver Nanomaterials in Textiles (ASTM E3025-16)
Standard Test Method for Evaluation of the Effect of Nanoparticulate Materials on the Formation of Mouse Granulocyte-Macrophage Colonies (ASTM E2525-08 (2013))
Standard Test Method for Evaluation of Cytotoxicity of Nanoparticulate Materials in Porcine Kidney Cells and Human Hepatocarcinoma Cells (ASTM E2526-08(2013))
Standard Guide for Tiered Approach to Detection and Characterization of Silver Nanomaterials in Textiles (ASTM E3025-16)
WK48313 (potential new guide for collection and generation of environment, health, and safety information for nanomaterials and nanoenabled products)
WK52417 (potential new standard for determination of total silver in textiles by inductively coupled plasma optical emission spectrometry or inductively coupled plasma mass spectrometry analysis)
WK60373 (potential new standard for quantitative measurement of the chemoattractant capacity of a nanoparticulate material in vitro)
WK60553 (potential new standard for evaluation of nanoparticulate material internalization by phagocytic cells in vitro)
WK60554 (potential new standard for detection of nitric oxide production)
Nanotechnologies — Guidance on voluntary labelling for consumer products containing manufactured nano-objects (ISO/TS 13830:2013)
ISO/DTS 21356-1 (potential new ISO standard for nanotechnologies -- structural characterization of graphene)
ISO/DTR 22293 (potential new ISO standard for evaluation of methods for assessing the release of nanomaterials from commercial, nanomaterial containing polymer composites)
ISO/DTS 21975 (potential new ISO standard for nanotechnologies -- polymeric nanocomposite films for food packaging -- barrier properties: characteristics and measurement methods)

**Mandatory
Standard(s)**

N/A

**Standard(s)
Update**

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

Purpose

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

Activities

In October 2019, staff participated in an ANSI Nanotechnology Standards Panel meeting. The purpose of the meeting was to facilitate a greater understanding of the relationship between voluntary consensus standards and regulations, and to discuss lessons learned on nanotechnology standards and regulations. Meeting participants also discussed potential steps to advance nanotechnology voluntary standards, the advantages/disadvantages of regulations based on voluntary

consensus standards and whether current nanotechnology-related standards require more specificity for their implementation in regulations.

Staff also participated in an ANSI U.S. TAG TC 229 meeting in October to prepare for an ISO TC 229 meeting in November. The U.S. TAG remains active in ISO standard development, including work on standard terms and definitions for specific nanomaterials and nano-manufacturing, standards on nanomaterial specifications, standards on characterizing nanomaterials, and methodology characterization and nanomaterial applications.

Staff also participated in the ASTM E56 meeting on nanotechnology in November. During the 2-day meeting, the subcommittee discussed ballots and ongoing activities, and staff provided information to the subcommittee on a new statistical method (a modified t-test) developed by CPSC and NIST, used to calculate positive or negative determinations when analyzing data from in vitro assays.

Next Action Staff will continue to be active in the ASTM E56 subcommittee and will participate in the next U.S. TAG to ISO TC 229 meetings, when scheduled.

National Electrical Code

Staff Contact Lee, Doug

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

Mandatory Standard(s) N/A

Standard(s) Update *National Electrical Code*, NFPA 70 was revised during the reporting period, the current edition of the code is 2020 and incorporates numerous revisions.

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

Activities During the reporting period, staff prepared an incident data summary and reviewed draft proposals in support of the 2023 NEC code revision cycle.

Next Action Staff intends to send the incident data summary to an NFPA 70 task group preparing comments on the NEC code revision. Staff will attend future meetings in support of NEC safety requirements and consider revisions for the next edition of the NEC.

Non-Full-Size Cribs and Play Yards

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards* (ASTM F406-19)
Standard Consumer Safety Specification for Crib Mattresses (ASTM F2933-19)

Mandatory Standard(s) 16 CFR part 1220, *Safety Standard for Non-Full-Size Baby Cribs* and 16 CFR part 1221, *Safety Standard for Play Yards*

Standard(s) Update 16 CFR part 1220, *Safety Standard for Non-Full-Size Baby Cribs* and 16 CFR part 1221, *Safety Standard for Play Yards* were updated during the reporting period, to incorporate by reference the latest revision of the voluntary standard ASTM F406-19.

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

Activities On October 23, 2019, a notice regarding the direct final rule for non-full size cribs and play yards published in the *Federal Register*. The direct final rule incorporates by reference ASTM F406-19, *Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards*. Following publication, staff informed the ASTM president, by letter, of the direct final rule. The direct final rule became effective on January 20, 2020.

On October 23, 2019, staff participated in a subcommittee meeting, where the members discussed results of a ballot item. The ballot item concerned revising the entrapment test requirement to refer to “product” rather than “crib” to include both play yards and cribs. The ballot item passed. During the subcommittee meeting, the fit and thickness, entrapment in accessories, and hybrid scope task groups provided reports.

In addition to the October 23, 2019 subcommittee meeting, staff participated in several task group meetings:

October 16, 2019	Mattress fit and thickness
November 13, 2019	Ad hoc language
January 1, 2020	Ad hoc language
January 21, 2020	Play yard accessory scope
February 11, 2020	Play yard stability
March 25, 2020	Play yard accessory scope

Next Action CPSC staff will continue to serve in a leadership role on the mattress fit and thickness task group. The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Playground Equipment (Home)

Staff Contact Lee, Kevin

Voluntary Standard(s) *Standard Consumer Safety Performance Specification for Home Playground Equipment (ASTM F1148-20)*

Mandatory Standard(s) N/A

Standard(s) Update *Standard Consumer Safety Performance Specification for Home Playground Equipment* was updated during the reporting period to ASTM F1488-20 and includes the latest updated requirement for acute angles, and to clarify exemptions associated with non-accessibility.

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

Activities Staff participated in the subcommittee meeting held on November 4, 2019, where the members discussed ballot results. The subcommittee also discussed adding a “fish probe” to evaluate entrapment hazards, testing of rope net climbers, and redefining the platform loading requirements for low-overhead, confined play areas. The subcommittee asked CPSC staff to provide a summary of arm and leg entrapment injury data regarding 18-month-old to 10-year-old children. Per a subcommittee request from the previous meeting, staff provided a digital version of the slide transition area sketch.

Next Action The next subcommittee meeting, scheduled for May 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled. Per the subcommittee’s request, staff will provide the requested incident data on entrapments.

Playground Equipment (Public)

Staff Contact Lee, Kevin

<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Performance Specification for Public Playground Equipment (ASTM F1487-17)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM on revising the standard to strengthen its safety provisions addressing hazards associated with public playground equipment.
<i>Activities</i>	<p>Staff participated in the subcommittee meeting held on November 5, 2019. Staff of the University of Northern Iowa gave a presentation to the subcommittee regarding the CPSC contract to conduct a pilot test of playground surfaces around the country. In addition, the CPSC handbook harmonization task group reported on the input to CPSC’s <i>Handbook for Public Playground Safety</i>. Subcommittee members asked CPSC staff to clarify: (1) Section 5.2 and what constitutes an intermediate platform and its minimum size, and (2) Section 5.3.6.3.1 on Hillside slides. In addition, the subcommittee discussed results from a previous ballot. The subcommittee also created task groups to develop a guide for equipment installation.</p> <p>In December 2019, ASTM issued an F15 ballot, revising three sections in the public playground standard: references, scope, and trolley rides. All three received negative votes. At the close of the reporting period, the negatives on the former two items remained unresolved, and the latter item (trolley rides) was removed from the ballot because a negative vote was found to be persuasive.</p> <p>On January 15 and February 7, 2020, staff participated in task group meetings for handbook harmonization. The purpose of the meetings was to review sections of the handbook that appear to conflict with ASTM 1487.</p> <p>On March 30, 2020, ASTM issued an F15 ballot with one item pertaining to public playgrounds. The item added and revised information regarding banister rails/glidiers. The ballot results were not known at the end of the reporting period.</p>
<i>Next Action</i>	Staff will participate in next subcommittee meeting, which has been scheduled as a virtual meeting to be held on May 15, 2020.

Playground Surfacing

Staff Contact Lee, Kevin

**Voluntary
Standard(s)**

Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment (ASTM F1292-18)
Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment (ASTM F1951-14)
Standard Specification for Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment (ASTM F3012-14)
Standard Guide for ASTM Standards on Playground Surfacing (ASTM F2223-19a)
Standard Test Method for Determining Impact Attenuation of Playground Surfaces Within the Use Zone of Playground Equipment as Tested in the Field (ASTM 3313-19)
Standard Test Method for Playground Surface Impact Testing in Laboratory at Specified Test Heights (ASTM F3351-19)

**Mandatory
Standard(s)**

N/A

**Standard(s)
Update**

ASTM F2223-19a, the latest revision of the *Standard Guide for ASTM Standards on Playground Surfacing* published in December 2019, and includes a revision to section 5.4, the background section of the standard.

ASTM F3351-19 (approved in December 2019) published as a new standard in January 2020, and is titled, *Standard Test Method for Playground Surface Impact Testing in Laboratory at Specified Test Heights*.

Purpose

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

Activities

Staff participated at the ASTM subcommittee meeting F08.63 on playground surfacing held on November 8, 2019, where the members discussed ballot results. In addition, staff of the University of Northern Iowa gave a presentation to the subcommittee regarding the CPSC contract to conduct a pilot test of playground surfaces around the country.

On January 28, 2020 ASTM issued an F08 ballot with three ballot items pertaining to F2223-19a. All three ballot items propose changes to references contained in the standard, in different parts of the standard. All three ballot items had unresolved negative votes at the end of the reporting period.

Next Action

The next subcommittee meeting, scheduled for May 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled. Staff is also planning to provide the subcommittee with an incident data summary of playground incidents related to falls on playground surfacing and sharp objects in playground surfacing.

Pools, Portable (Child Drowning)

Staff Contact Bathalon, Susan

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

Mandatory Standard(s) N/A

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

Purpose To work with ASTM and PHTA on revising the standard to strengthen its safety provisions addressing hazards associated with residential drowning in aboveground pool products.

Activities On October 3, 2019, November 20, 2019 and March 23, 2019, staff participated in ASTM F15.60 subcommittee meetings to discuss the development of requirements for a child-resistant ladders for portable pools. The subcommittee is considering dimensional specifications for child-resistant ladders.

Next Action Staff will participate in future ASTM and PHTA portable pool subcommittee meetings, when scheduled.

Portable Bed Rails (Children's)

Staff Contact Nesteruk, Hope

Voluntary Standard(s) *Standard Consumer Safety Specification for Portable Bed Rails (ASTM F2085-19)*

Mandatory Standard(s) 16 CFR part 1224, *Safety Standard for Portable Bed Rails*

**Standard(s)
Update**

Standard Consumer Safety Specification for Portable Bed Rails was revised in November 2019. The revision, F2085-19 contains a change to the testing sheet material specifications.

Purpose

To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with portable bed rails for children.

Activities

On October 22, 2019, staff participated in the ASTM subcommittee meeting for portable bed rails. Ballot results were reviewed and the ballot item to revise the test sheet material specifications was approved. In addition, the subcommittee reviewed incident data.

In November 2019, ASTM published a revised version of F2085, and pursuant to section 104(b)(4)(B) of the CPSIA, on November 22, 2019, ASTM notified the CPSC of this revision. In February 2020, staff submitted a briefing memorandum recommending that the Commission issue a direct final rule updating the reference cited in the Commission's rule for portable bed rails, 16 CFR part 1224, to reflect ASTM F2085-19. On February 11, 2020, the Commission voted to approve incorporation by reference of ASTM F2085-19 into the direct final rule. On February 28, 2020, staff advised the ASTM president, by letter, of the direct final rule.

Staff also reviewed and supplied incident data to the subcommittee in November 2019.

Next Action

The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Portable Generators

Staff Contact Buyer, Janet

**Voluntary
Standard(s)**

*Safety and Performance of Portable Generators (ANSI/PGMA G300-2018)
Carbon Monoxide (CO) Emission Rate of Portable Generators
(UL 2201, 2nd Edition)*

**Mandatory
Standard(s)**

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

**Standard(s)
Update**

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

<i>Purpose</i>	To work with UL and PGMA on revising the standards to strengthen safety provisions addressing hazards associated with portable generator carbon monoxide (CO) deaths and injuries.
<i>Activity</i>	The public comment period on staff's plan to evaluate the effectiveness of the CO hazard mitigation requirements for portable generators in two voluntary standards, PGMA G300 and UL 2201, closed near the end of FY19. During the reporting period, CPSC and NIST staff evaluated the comments, documented in NIST Technical Note 2048: Simulation and Analysis Plan to Evaluate the Impact of CO Mitigation Requirements for Portable Generators, and they are revising the plan, accordingly. In March 2020, UL opened a review of UL 2201, asking STP members to comment and vote on a proposal by NEMA to exclude portable generator/welding machines from UL 2201. Staff submitted a letter to UL, containing staff's comments and vote, in opposition to the proposal.
<i>Next Action</i>	Staff will continue to work with NIST staff to revise, then publish and execute staff's plan to evaluate the effectiveness of the CO hazard mitigation requirements for portable generators in two voluntary standards.

Portable Hook-On Chairs

<i>Staff Contact</i>	Nesteruk, Hope
<i>Voluntary Standard(s)</i>	<i>Standard Consumer Safety Specification for Portable Hook-On Chairs (ASTM F1235-18)</i>
<i>Mandatory Standard(s)</i>	16 CFR part 1233, <i>Safety Standard for Hook-On Chairs</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with hook-on chairs.
<i>Activities</i>	To monitor the adequacy of the mandatory standard and its referenced voluntary standard, staff conducted the annual review of incident data associated with hook-on chairs in November 2019 and shared the results with ASTM. No new incidents or hazard patterns were reported for this product since the last review.
<i>Next Action</i>	Staff will participate in the next subcommittee meeting, when scheduled.

Pressure Cookers

Staff Contact McCallion, Richard

Voluntary Standard(s) *Pressure Cookers (UL 136, 8th Edition)*

Mandatory Standard(s) NA

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

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

Activities There has been no activity associated with pressure cooker voluntary standards in the reporting period.

Next Action Staff will provide UL with incident data relating to pressure cooker locking mechanisms and hazards related to premature lid disengagement. Staff will participate in the next subcommittee meeting, when scheduled, and work with UL STP 136 to determine whether the current standard adequately addresses all potential hazards.

Recreational Headgear Sensors

Staff Contact McCallion, Rick

Voluntary Standard(s) *Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear (ASTM F1446-15b)*
Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating (ASTM F1447-18)
Standard Specification for Headforms (ASTM F2220-15)

Mandatory Standard(s) N/A

Standard(s) Update Staff was not involved in any standards that were revised during the reporting period.

- Purpose** To work with ASTM to develop and revise helmet and headgear standards, and to work with ASTM to develop a new voluntary standard for headgear sensors.
- Activities** In November 2019, staff participated in the ASTM F08.53 subcommittee meeting on headgear and helmets and also participated in task group meetings on helmet sensors and helmet mounted accessories. During the helmet sensors task group meeting, the draft standard was reviewed. The members of the task group provided comments on the draft.
- Next Action** CPSC staff will work with the ASTM members to address the comments in the draft standard for headgear sensors. The next subcommittee meeting, scheduled for May 2020, was cancelled due to COVID-19. The subcommittee is tentatively planning a virtual meeting to begin work on an update to F1447, and staff is planning to participate.

Recreational Off-Highway Vehicles (ROVs)

Staff Contact Paul, Caroleene

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

Mandatory Standard(s) *NPR Recreational Off-Road Vehicles (79 FR 68964)*

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

Purpose To work with ROHVA and OPEI to develop requirements to address fire hazards and debris penetration hazards in off-highway vehicles.

Activities On October 1, 2019, staff sent a letter to OPEI, and ROHVA (along with SVIA, which is the SDO for ATVs, see ATV section above), and included a spreadsheet outlining staff's preliminary analysis of the 84 redacted IDIs that were supplied to the SDOs in FY 2019. In December 2019, although the standards in question have not formally been opened for revision, staff participated in a meeting with members of OPEI, SVIA, and ROHVA to discuss staff's preliminary analysis of the IDIs. These IDIs pertain to fire or debris penetration hazards in off-highway vehicles. The meeting resulted in general agreement to focus on the two categories with the most IDIs and recalls: fuel systems and engine/exhaust heat.

On March 25, 2020, staff sent a follow-up letter to the three SDOs, summarizing the December meeting results, and asking for another meeting to discuss potential

requirements for fuel systems and engine/exhaust heat management, as well as continuing discussion on debris penetration hazards. Staff's letter also included a list of the related standards to consider.

Next Action Staff will schedule the next meeting and meet with ROHVA and OPEI.

Safety Locks and Other Household Child Inaccessibility Devices

Staff Contact Lee, Kevin

Voluntary Standard(s) ASTM WK71048 (potential new standard for locks and latches used with cabinet doors and latches)

Mandatory Standard(s) N/A

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

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

Activities On November 18, 2019, staff participated via teleconference in ASTM F15.76 task group meetings on child safety locks and latches task group reviewed incident data previously supplied by staff. In addition, the task group voted to send the draft standard out to subcommittee ballot.

On February 20, 2020, ASTM issued an F15.76 subcommittee ballot containing the draft standard for safety locks and latches. The ballot item received both negative votes and comments. The negative votes and comments have not been resolved as of the end of the reporting period.

Next Action Staff will continue working with the task group to develop a standard and attend the next task group meeting, when scheduled.

Self-Balancing Scooters and Light Electric Vehicles

Staff Contact Mella, Lawrence

**Voluntary
Standard(s)**

*Recreational Powered Scooters and Pocket Bikes (ASTM F2641-15)
Standard Consumer Safety Specification for Safety Instructions and Labeling for
Recreational Powered Scooters and Pocket Bikes ASTM F2642-08 (2015)
ASTM WK57360 (potential new standard for self-balancing scooters and
hoverboards)
ASTM WK70724 (potential new standard for commercial electric-powered
scooters for adults)*

**Mandatory
Standard(s)**

N/A

**Standard(s)
Update**

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

Purpose

To work with ASTM and UL on developing a new standard or revising the existing standard to strengthen the safety provisions addressing hazards associated with self-balancing scooters.

Activities

In November 2019, staff participated in an ASTM subcommittee meeting in Houston, TX, where the subcommittee discussed the ballot results of the draft standard for self-balancing scooters and hoverboards, ASTM WK57360. The subcommittee found one negative comment persuasive and will revise the draft and ballot it again. Staff also participated in a subcommittee meeting via teleconference in January 2020, where the development of ASTM WK70724, a draft new standard for commercial electric-powered scooters for adults, was discussed. The subcommittee asked CPSC to provide incident data for these products.

In February 2020, staff sent a letter to the ASTM F15.58 chair, supporting the development of ASTM WK70724 and requesting requirements that address brake failures, electrical and thermal-related events, software issues, durability (fatigue testing), dynamic and static load testing, environmental conditions, and warning labels and instructions. Attached to the letter were the incident data the subcommittee requested in January.

Next Action

Staff will participate in the next ASTM subcommittee meeting, which has not been scheduled.

Sling Carriers (Infant and Toddlers)

Staff Contact

Nesteruk, Hope

**Voluntary
Standard(s)**

Consumer Safety Specification for Sling Carriers (ASTM F2907-19)

<i>Mandatory Standard(s)</i>	16 CFR part 1228, <i>Safety Standard for Sling Carriers</i>
<i>Standard(s) Update</i>	<i>Consumer Safety Specification for Sling Carriers</i> was revised during the reporting period. The revised standard, ASTM F2907-19, contains miscellaneous wording changes throughout the standard.
<i>Purpose</i>	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with sling carriers.
<i>Activities</i>	<p>On October 22, 2019, staff participated in the subcommittee meeting for sling carriers, where two task groups provided updates: baby wearing apparel and ad hoc formatting requirements. Staff also provided ASTM with incident data in October 2019. During the meeting, the subcommittee reviewed recent ballot results. The ballot item for sling carriers passed, and in November 2019, ASTM approved the revised standard.</p> <p>In November 2019, ASTM published a revised version of F2907, and pursuant to section 104(b)(4)(B) of the CPSIA, ASTM notified the CPSC of this revision on January 8, 2020.</p> <p>In March 2020, staff submitted a briefing memorandum recommending that the Commission issue a direct final rule updating the reference cited in the Commission’s rule for sling carriers, 16 CFR part 1228, to reflect ASTM F2907-19. The Commission voted to approve incorporation by reference of ASTM F2907-19 into the direct final rule. At the end of the reporting period, staff advised the ASTM president, by letter, of the direct final rule.</p>
<i>Next Action</i>	The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Smoke Alarms

<i>Staff Contact</i>	Lee, Arthur
<i>Voluntary Standard(s)</i>	<i>Standard for Single and Multiple Station Smoke Alarms</i> (UL 217, 9 th Edition) <i>National Fire Alarm and Signaling Code</i> (NFPA 72, 2019 Edition)
<i>Mandatory Standard(s)</i>	N/A

***Standard(s)
Update***

Standard for Single and Multiple Station Smoke Alarms. UL 217 9th Edition was published during the reporting period. Starting on June 1, 2021, smoke alarms will be required to comply with this edition, which revised the performance tests that smoke alarms are tested to, improving responsiveness and reducing false alarms.

Purpose

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

Activities

In January 2020, staff participated in a meeting with UL 217 STP, where the STP members discussed wireless interconnectivity, accelerated battery testing, and extending the lifetime past 10 years. The members did not reach consensus on any of those topics.

During the reporting period, staff also provided written comments to UL regarding the proposed moving of the effective date that was established previously in UL 217 8th Edition (the current edition is the 9th) from May 2020 to June 2021. Staff recognized the industry concerns with the May 2020 effective date, but requested an intermediate effective date to ensure consumers have access to compliant smoke alarms sooner.

In February, staff participated on a technical panel sponsored by the NFPA Research Foundation. The technical panel discussed the topic of audible alarm signal waking effectiveness. The discussion centered on the at-risk populations, such as the elderly, school-age children, the alcohol-impaired, and individuals who are hard of hearing, who do not fully benefit from conventional smoke alarm alerts, particularly during sleeping hours. Current and future requirements were reviewed to optimize the waking effectiveness for alarm and signaling systems to meet the needs of these at-risk groups.

Next Action

CPSC staff will continue working with the contractor in completing the Smoke and CO alarms survey and with UL, NFPA, and other stakeholders on smoke alarms and safety. The next UL 217 STP meeting is tentatively scheduled for November 2020. Staff will work with NPFA and UL in possibly developing proposals regarding the audible frequency of smoke alarms.

Soft Infant and Toddler Carriers

Staff Contact

Nesteruk, Hope

***Voluntary
Standard(s)***

Standard Consumer Safety Specification for Soft Infant and Toddler Carriers (ASTM F2236-16a)

<i>Mandatory Standard(s)</i>	16 CFR part 1226, <i>Safety Standard for Soft Infant and Toddler Carriers</i>
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with soft infant and toddler carriers.
<i>Activities</i>	<p>On October 22, 2019, staff participated in the ASTM subcommittee for soft infant and toddler carriers where the subcommittee reviewed ballot results and approved two changes to the standard: flammability requirements revision and the addition of a warning regarding nursing. In addition, the following task groups provided updates during the subcommittee meeting: fastener strength, leg openings, and labeling.</p> <p>The revision to ASTM F2236-16a is on hold, pending the issue and resolution of item(s) expected to be balloted by ASTM in the near future.</p>
<i>Next Action</i>	The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Sports Protective Gear/Football Helmets

<i>Staff Contact</i>	McCallion, Richard
<i>Voluntary Standard(s)</i>	Various headgear standards developed by NOCSAE.
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were substantially updated during the reporting period. NOCSAE makes periodic minor or editorial changes to their standards that do not affect the product design or performance.
<i>Purpose</i>	To work with NOCSAE on revising the standards to strengthen safety provisions addressing hazards associated with football helmets.
<i>Activities</i>	Staff participated in two NOCSAE meetings: on October 17, 2019, and on January 31, 2020. During the October 2019 meeting, the committee heard a presentation on why the NOCSAE Youth Football Helmet standard had not

progressed past the draft status. The presentation's key point is that there are questions that remain unanswered due to lack of scientific evidence needed to complete the standard. The subcommittee also listened to other presentations pertaining to youth helmets during the October 2019 meeting.

During the January 2020 meeting, the committee chairman announced that NOCSAE had received ANSI accreditation and would now be developing their standards using the ANSI Essential Requirements. The committee also reviewed all of the standards currently under revision

Next Action CPSC staff will participate NOCSAE Scientific Advisory Committee meeting, if scheduled. CPSC staff will continue to monitor NOCSAE standards and participate in the NOCSAE summer standards meeting in July 2020.

Spray Polyurethane Foam (SPF) Insulation

Staff Contact Bevington, Charles

**Voluntary
Standard(s)**

Standard Practice for Spraying, Sampling, Packaging, and Test Specimen Preparation of Spray Polyurethane Foam (SPF) Insulation for Testing of Emissions Using Environmental Chambers (ASTM D7859-19)

Standard Test Method for Determining Chemical Emissions from Spray Polyurethane Foam (SPF) Insulation using Micro-Scale Environmental Test Chambers (ASTM D8142-17e1)

Standard Practice for Evaluating Residential Indoor Air Quality Concerns (ASTM D7297-14)

ASTM WK58354 (potential new standard for measuring chemical emissions from SPF insulation in a large-scale spray room in development)

ASTM WK58356 (potential new standard for conducting emission and fate modeling for SPF insulation indoors in development)

ASTM WK40292 (potential new test method for determination of vapor phase organic compounds emitted from SPF using sorbent tubes analyzed by thermal desorption gas chromatography and mass spectrometry in development)

ASTM WK58355 (potential new standard for estimating emissions of methylene diphenyl di-isocyanate from SPF insulation using emission cells or micro-scale environmental test chambers in development)

**Mandatory
Standard(s)**

N/A

**Standard(s)
Update**

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

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

Activities In October 2019, staff participated in the ASTM D22.05 subcommittee meeting in Houston, TX. During the meeting, staff actively participated in sessions focused on development sessions for ASTM WK58354 and ASTM WK58356 and revisions to ASTM D7297. In addition, attendees participated in a brainstorming session, looking for new topics, ideas, and areas on which the subcommittee should focus.

In January 2020, staff participated in the ASTM D22.05 task group meeting via teleconference. This meeting focused on development of ASTM WK58354 and ASTM WK58356.

In March, staff participated in another ASTM D22.05 subcommittee meeting via teleconference. The subcommittee intends to issue a ballot for both ASTM WK58354 and ASTM WK58356 in the summer, and therefore, the subcommittee chair asked the task group to have each draft standard ready for subcommittee review by July.

Next Action Staff will continue to provide technical support to the subcommittee and support the task group in preparing both ASTM WK58354 and ASTM WK58356 for subcommittee review in July.

Stationary Activity Centers

Staff Contact Lee, Kevin

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

Mandatory Standard(s) *Standard Consumer Safety Specification for Stationary Activity Centers, 16 CFR part 1238 (84 FR 28205)*

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

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

Activities Staff participated in the F15.17 subcommittee meeting held on October 21, 2019. During the meeting, the stability task group provided an update to the subcommittee. Staff also provided incident data for the subcommittee's review.

Next Action The next subcommittee meeting, scheduled for the end of April 2020, was cancelled due to COVID-19. Staff will participate in the next ASTM subcommittee meeting, when scheduled.

Swimming Pools/Spas, Drain Entrapment

Staff Contact Eilbert, Mark

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

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

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

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

Activities ANSI/APSP/ICC-16 2017 is referenced in the Virginia Graeme Baker Pool and Spa Act. Last fiscal year, the CPSC approved the rule and it was published in the *Federal Register* (Vol. 84, No. 101) on May 24, 2019. The effective testing compliance date is November 24, 2020. In March 2020, PHTA contacted staff and requested a 6-month delay to the effective certification deadline of November 24, 2020, due to the closure of the largest U.S. test laboratory in response to COVID-19. Staff is reviewing the request and will make a recommendation to the Commission regarding PHTA's request.

Next Action Staff will monitor the effective date review process and continue to work with the committee to monitor the effectiveness of the standard and make any revisions necessary.

Swimming Pools/Spas Safety, Vacuum Relief System

Staff Contact Eilbert, Mark

Voluntary Standard(s)	APSP 17 (potential new standard for safety vacuum release systems, automatic pump shut-off systems, shut-off systems, and vacuum limiting systems for swimming pools, spas, wading pools, hot tubs, and catch pools)
Mandatory Standard(s)	16 CFR part 1450, <i>Virginia Graeme Baker Pool and Spa Safety Act</i>
Standard(s) Update	No standards associated with this product were updated during the reporting period.
Purpose	To work with PHTA on developing the standard to strengthen safety provisions and to ensure that the voluntary standard maintains adequate safety levels addressing hazards associated with safety vacuum release systems for swimming pools, spas, wading pools, and hot tubs.
Activities	Staff continued the review of the draft APSP-17 standard throughout the reporting period. However, PHTA has placed the development of APSP-17 standard on hold.
Next Action	Staff will provide comments to the PHTA standards committee for APSP-17 when that draft standard is further developed.

Table Saws

Staff Contact	Paul, Caroleene
Voluntary Standard(s)	<i>Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 2-1: Particular Requirements for Transportable Table Saws</i> (ANSI/UL 62841-3-1, 1 st Edition)
Mandatory Standard(s)	NPR <i>Safety Standard Addressing Blade-Contact Injuries on Table Saws</i> (82 FR 22190)
Standard(s) Update	No standards associated with this product were updated during the reporting period.
Purpose	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with blade-contact injuries from table saws.
Activities	Staff reviewed a UL proposal dated October 4, 2019, to remove table saw requirements from UL 987. In December 2019, a resolution on the proposal was

reached, and UL revised their standard for *Stationary and Fixed Electric Tools*, UL 987. All table saw requirements are now covered under UL 62841-3-1.

Next Action Staff will update UL on table saw incident data and CPSC rulemaking actions.

Tents

Staff Contact Tenney, Allyson

Voluntary Standard(s) ASTM WK64005 (potential new standard for determining flammability of materials for recreational camping tents and warning labels for associated hazards in development)

Mandatory Standard(s) N/A

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

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

Activities In December 2019, a draft standard was balloted to the ASTM F08 main committee. The balloted version was substantially different than the draft standard balloted to the subcommittee in May 2019.

Staff participated in a subcommittee meeting in January, which focused on reviewing the ballot results. The ballot received three negative comments; the subcommittee found the negative comments non-persuasive, and the persuasiveness of those comments was forwarded to the main committee for resolution.

During the reporting period, staff also received permission to vote on future ballots relating to the draft standard.

Next Action Staff will continue to participate in future subcommittee meetings, and staff will review and comment on the future ballot to the subcommittee.

Toddler Beds

Staff Contact Kish, Celestine

Voluntary Standard(s)	<i>Standard Consumer Safety Specification for Toddler Beds (ASTM F1821-19e¹)</i>
Mandatory Standard(s)	16 CFR part 1217, <i>Safety Standard for Toddler Beds</i>
Standard(s) Update	16 CFR part 1217, <i>Safety Standard for Toddler Beds</i> was updated during the reporting period, to incorporate by reference the latest revision of the voluntary standard ASTM F1821-19e ¹ .
Purpose	To work with ASTM to ensure that the voluntary standard and the corresponding federal mandatory standard maintain adequate safety levels addressing hazards associated with toddler beds.
Activities	In October 2019, staff submitted a briefing memorandum to the Commission, recommending that the Commission issue a direct final rule updating the reference cited in the Commission's rule for toddler beds, 16 CFR part 1277, to reflect ASTM F1821-19e ¹ . The Commission voted to approve ASTM F1821-19e ¹ being incorporated by reference into the direct final rule. The rule published in the <i>Federal Register</i> on October 25, 2019. On November 13, 2019, staff advised the ASTM president, by letter, of the direct final rule. The rule became effective on January 27, 2020.
Next Action	Staff will continue to review incident data on toddler beds and will participate in the next subcommittee or task group meeting, when scheduled.

Torch Fuel and Lamp Oil

Staff Contact	White, Sharon
Voluntary Standard(s)	ASTM WK60454 (potential new standard for lamp fuel and torch fuel packaging in development)
Mandatory Standard(s)	N/A
Standard(s) Update	No standards associated with this product were updated during the reporting period.
Purpose	To work with ASTM on the development of standards addressing the hazards associated with the color and odor of torch fuel and lamp oil and the design of torch fuel and lamp fuel packaging.

Activities In July 2019, the task group finalized the draft packaging standard for a ballot to the ASTM F15 main committee. However, the task group chair did not complete the administrative work ASTM needed to submit the draft standard for ballot. During the reporting period staff reached out to the task group chair, by phone and email, seeking information on why the draft standard has not been balloted.

Next Action Staff will continue to work with ASTM staff and the task group chair to get the draft packaging standard balloted. Once balloted, staff will comment on the standard and participate in any task group meetings needed to review the results of the ballot.

Toys

Staff Contact Mordecai, Benjamin

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

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

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

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

Activities There has been no activity associated with the ASTM toy standard in the reporting period.

Next Action Staff will participate in upcoming ASTM task group meetings, scheduled for May 2020.

Upholstered Furniture

Staff Contact Lock, Andrew

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

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

<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with ASTM, NFPA, and other stakeholders on revising standards to strengthen safety provisions addressing hazards associated with fires involving upholstered furniture.
<i>Activities</i>	In December 2019, staff participated in a teleconference of the ASTM E05.15 subcommittee that governs ASTM E1353. At the meeting, the subcommittee discussed a proposed test method for upholstered furniture, based on the State of California, Department of Consumer Affairs, Bureau of Household Goods and Service's Technical Bulletin 117-2013; this proposed test method was withdrawn at the conclusion of the discussion.
<i>Next Action</i>	Staff will attend the next ASTM E05.15 subcommittee meeting, scheduled for June. Staff will attend two NFPA 260 meetings, a task group meeting scheduled for April, and the full committee meeting scheduled for May. Staff will continue to work with ASTM, NFPA, and other stakeholders to address hazards associated with fires involving upholstered furniture.

Washing Machines

<i>Staff Contact</i>	Kim, Yeon
<i>Voluntary Standard(s)</i>	<i>Electric Clothes Washing Machines and Extractors (UL 2157, 4th Edition)</i>
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with UL on revising the standard to strengthen its safety provisions addressing hazards associated with an unbalanced load condition of top-loading washing machines.

<i>Activities</i>	In December 2019, staff met with AHAM regarding several topics, including washing machines. AHAM is preparing a proposal to UL 2157 on forced failure test to ensure containment if an instantaneous, out of-balance condition at high-spin speed occurs. AHAM plans to request a UL task group meeting in near future. Staff is monitoring the proposal development and plans to participate in any future meetings
<i>Next Action</i>	Staff intends to monitor the AHAM proposal and participate in an anticipated UL task group meeting to review the proposal.

Wearables

<i>Staff Contact</i>	Thomas, Treye
<i>Voluntary Standard(s)</i>	UL 8400 (potential new standard for augmented, virtual, and mixed reality)
<i>Mandatory Standard(s)</i>	N/A
<i>Standard(s) Update</i>	No standards associated with this product were updated during the reporting period.
<i>Purpose</i>	To work with UL, ASTM, and any other SDOs on the development of standards for wearable technologies to keep consumers safe.
<i>Activities</i>	In December 2019, staff submitted letters to UL and ASTM requesting the development of standards for wearable technologies with a focus on consumer safety.

In response to staff's letter, staff met with ASTM in February, and discussed both wearable technologies and additive manufacturing, such as 3D printing. During the meeting, CSPC staff presented their approach for categorizing wearable technology products, and ASTM staff described their ongoing research and plans for future wearable technology activities. ASTM will continue to evaluate this technology and identify the industries that should potentially be involved in standards development. The ASTM traditional silo approach does not work with this new technology, which encompasses a broad range of product types. ASTM is looking to develop general standards that will apply to specific product categories. ASTM reported that they will need multiple committees and multiple resources to address this emerging hazard.

Staff participated in two UL 8400 STP meetings in February and March 2020, where UL's standards development process was described for STP members and

a preliminary timeline and work plan was presented. UL hopes to publish the new UL 8400 standard by first quarter 2021.

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

Window Coverings

Staff Contact Balci-Sinha, Rana

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

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

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

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

Activities Staff met with WCMA representatives on October 7, 2019, to discuss the current status of the standard. Ralph Vasami, from WCMA, outlined all of WCMA's outreach efforts regarding the warning requirements associated with custom window coverings, as required by ANSI/WCMA A100.1-2018. Mr. Vasami also stated that manufacturers are trying to understand the new Canadian rule testing requirements, and thus, they do not have the bandwidth to focus on the WCMA standard improvements.

On February 3, 2020, staff sent Mr. Vasami a letter, outlining staff's recommendations for future improvements to the standard, and included a request to reopen the standard and discuss staff's recommendations.

Next Action Staff will participate in upcoming committee meetings as they are scheduled and will review and comment on any ballots issued by WCMA.