2014 NOV 13GF

PETITION FOR RECALL TO REPAIR/RETROFIT AND RULEM

Petitioners, The Safety Institute, Carol Pollack-Nelson, and Cash, Krugler & Fredericks, LLC (hereinafter "Petitioners"), pursuant to 16 C.F.R. § 1051 Procedure for Petitioning for Rulemaking, request that the U.S. Consumer Product Safety Commission initiate mandatory rulemaking to set safety standards for the design and installation of residential elevators to eliminate excessive space between the elevator car door/gate (interior door) and hoistway or swing door (exterior door).

In many home elevators, and similar versions found in older apartment and commercial buildings, the clearance between the two doors is large enough to allow children as old as 12 years to fit between them. When the elevator is called to another floor, the hoistway door automatically locks, and the child's body is carried along with the elevator car until it meets the obstruction of the sill, where the child's body – usually the head – is crushed. Industry has been aware of these dangers for more than 80 years, but has failed to adopt an appropriate, safe voluntary standard to address this design flaw. At least 55 child deaths have occurred since 1967; the most recent known death occurred in 2009. Since 2010, there have been three serious permanent debilitating injuries resulting from child entrapment.

A mandatory standard is required because the gap between the doors that is permitted by the voluntary standard has caused deaths and serious injuries. Efforts to work through the voluntary standards process, as described in this petition, have not adequately addressed the defect and therefore, have not reduced the risk of harm. In fact, 35 years ago, the voluntary standards committee actually changed the dimensions for residential elevators from a maximum gap of 4 inches between the two doors, to the less-safe 5-inch gap.

The petitioners also request that the U.S. Consumer Product Safety Commission order a recall (to repair) of all residential elevators that allow a gap between the hoistway and swing doors of more than 4 inches. Recalled defective doors should be retrofitted with a device that would either detect the presence of a child or small adult in the door path and prevent the elevator from operating or physically fill the gap to prevent children and small adults from becoming entrapped.

Industry Knowledge of Design Defect

The elevator industry has known about the entrapment hazard in swing door elevators for

Received CPS

the ASME Standard. A child or small adult can fit into those valleys, and when the hoistway (exterior) door is closed and the elevator moves, they can be seriously injured or killed. Some elevator designers, installers and others purportedly following the ASME A 17.1 5-inch rule do not take into account the extra space created by the valleys, which, in effect, can increase the gap by an additional three inches or more.

In 2003, the Otis Elevator Company, as part of a settlement with the family of an eight-year-old boy who died after becoming entrapped between elevator doors, launched a national safety campaign, equipping 4,000 elevators with space guards. Otis also sent letters to other manufacturers urging them to check the size of the gap between elevator doors and offered free space guards for Otis-manufactured elevators.⁷

Over the years, a number of tragic accidents have occurred on elevators with swing-type hoistway doors, including the deaths of numerous children. These accidents have demonstrated the safety risk posed by elevators with swing doors. If the hoistway door and car gate are both closed, the space between them would be wide enough to fit a child or small adult. Should the elevator be called up while the person is in that space, serious injury or death is likely to result. These tragedies can be avoided.⁸

In addition, Otis' Director of Worldwide Standards, Lou Bialy, highlighted the danger posed by this defect in a trade publication, Elevator World, entitled Space Between Swing Doors Collapsible Gates Still A Hazard. As recently as March 2014, elevator experts James Filippone and John Koshak reiterated the dangers of child entrapment in another Elevator World article entitled Solutions Needed to Ensure Children's Safety.

Safer and Feasible Alternative Designs

Safer design options reduce the gap between the hoistway and car doors. Such designs recognize the ergonomic factors that contribute to the hazard. For example, as the CPSC's own anthropometry data show, children's heads are larger than their bodies, and the most vulnerable children, ages 2-3.5 years, have head breadths of less than five inches.¹⁰

The CPSC and others have identified 4 inches as a key element of safe design in other contexts, such as the allowable space between staircase spindles, specifically to prevent head entrapment. The CPSC's Public Playground Safety Handbook recommends a more conservative maximum allowable gap of 3.5 inches, specifically to prevent a child's

Letter to National Wheelovator; Raymond Moncini; Otis Elevator Company; December 8, 2003

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⁹ Space Between Swing Doors Collapsible Gates Still A Hazard; Lou Bialy; Elevator World; May 2003 ¹⁰ Change in the Physical Dimensions of Children in the United States; U.S. Consumer Product Safety Commission; April 27, 1998

¹¹ Ergonomics and Design Review; Rani Leuder; Helvey v. ThyssenKrupp Access Corporation; October 22, 2012

The voluntary ASME standard has failed to safeguard children from injuries and deaths. According to CPSC's own figures, there were an estimated 1600 injuries associated with residential elevators in just a two-year period.

The most recent figures from CPSC's NEISS system show that an estimated 1,600 injuries associated with residential elevators and lifts were seen in emergency departments from 2011 through 2012. CPSC only has jurisdiction over elevators customarily used by consumers in a residential setting. Some of those injuries included children becoming entrapped in the gap of residential elevators, tragically leading to fatalities and serious injuries. The agency has an active and ongoing compliance investigation regarding the safety of residential elevators and the entrapment hazard they can present. While CPSC investigates the role and responsibilities of manufacturers and installers when it comes to the safety of residential elevators, owners of residential elevators should take steps to ensure children do not have unsupervised access to in-home elevators. ¹⁵

In addition, the entrapment hazard has led to a number of child deaths. In the early1990s, the Otis Elevator company revealed to the plaintiffs in a New Jersey case the deaths or severe injuries to 34 children from 1983-1993 in the southern New York and New Jersey area alone and an additional 16 deaths from 1947 to 1963. More recently, the petitioners are aware of five more deaths and two catastrophic injuries in which children were entrapped and crushed in residential elevators.

The ASME Voluntary Standards Process Has Been a Failure

The ASME standards-setting process has not produced a substantive change to the voluntary residential elevator standard in nine years of committee meetings, despite members repeatedly bringing up the excessive gap issue.

In 2005, the A-17 committee began discussing revisions to the "Clearance" section of the standard. Several members of the A-17 Committee lobbied to change the Clearance dimensions of the standard back to the original dimensions. Minutes of the committee meetings between September 2006 and June 2007 show that some committee members expressed concern about the hazardous gap permitted by the standard. However, the group rejected any proposals for revising the standard to require tighter clearances and more precisely described measuring points to ensure that home elevators would comply.¹⁹

¹⁵ Email to The Safety Record Blog; Scott Wolfson; US Consumer Product Safety Commission; August 27, 2013

The Elevator Design Hazard That's Been Killing Children for Decades; The Safety Record Blog; July 11, 2013

¹⁷ Elevator Safety Flaws Persist, Despite History of Tragic Accidents; Shawn Hubler; Fair Warning; December 8, 2013

¹⁸ Appendix A; Elevator Entrapment Deaths and Injuries

¹⁹ A17 Residence Elevator Committee; Minutes; September 19, 2006- June 18, 2007

We have no reason to believe that will happen. Nine years have elapsed since the ASME committee first considered modifying requirements for clearances. To date, the standard still has not been revised to effectively address the hazard. Clearly, industry has demonstrated its unwillingness to correct the problem on its own and there is insufficient industry buy-in supporting the change. For example, when one member suggested amending the rule to reflect that the measurements should be taken from the farthest points, it was rejected: "The Committee feels assured that the measurement criteria presented will provide for adequate safety." ²⁴ In another instance, a small group within the committee voted against the proposed rule, with one member arguing: "Those clearances between the car and hoistway doors must be reduced to provide an acceptable level of safety for the families using this device. Accidents dealing with this area have been deadly for those involved." ²⁵Even when confronted with the history of child deaths, the response was: "The committee feels assured that the measurement criteria presented will provide for adequate safety. In addition, the 5"inch dimension has been in the standard for many years."26

More importantly, even if ASME A17 amends the rule, its adoption is not automatic. Any jurisdiction (whether city, county or state) may adopt any version of the A17 Elevator Safety Code. Many jurisdictions are decades behind. For example, some states today use the 2004 or older versions, even though there have been many subsequent versions. Other jurisdictions, such as South Carolina, do not have any code for residential elevators and do not require permitting or inspections for single family residential elevators. Children represent a vulnerable population who need the protection of a strong mandatory standard when the voluntary standards process has repeatedly failed to offer reasonable and feasible protections against potentially grievous injury.

The ASME's standard-setting process, unfathomable delays and rationale for rejecting proposed changes is at odds with the purpose of developing a safety standard. Industry's inaction is even more egregious given that methods for addressing the hazard are technologically and economically feasible and have been for many years. Further, to conclude that a standard should not be changed simply because it has existed for many years is not the result of a credible standards-writing process.

Ironically, the elevator industry has launched the homeSAFE (Safety Awareness for Elevators) Campaign, to increase home elevator safety awareness. The campaign is sponsored by Association of Members of the Accessibility Equipment Industry (AEMA), National Association of Elevator Contractors (NAEC), National Association of Elevator Safety Authorities International (NAESA) and ThyssenKrupp Access. The HomeSAFE Campaign recommends that homeowners make sure the gap between the accordion and swing doors be no more than 4 inches, even as the ASME committee refused to codify this advice into its own standards:

TN05-803 Residence Elevator Committee; Attachment 8C; Pg. 5
 TN05-803 Residence Elevator Committee; Attachment 8C; Pg. 6

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Respectfully submitted,

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By: Andrew Cash, David Krugler
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404-659-1710
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Interest of Petitioners

This petition is brought by three organizations on behalf of all children and their families affected by residential elevators:

The Safety Institute is a 501 (c) 3 non-profit organization whose focus is on injury prevention and product safety. The Safety Institute examines areas of injury prevention and product safety across a broad spectrum. The Institute bases its plans and priorities on issues that require greater study and emphasis, as well as those which may be underserved by other organizations and advocates. The Institute gives special attention to those areas of emerging importance to injury and product safety, including the effects of new and changing technologies.

Independent Safety Consulting (ISC), through its principal, Carol Pollack-Nelson, provides human factors consulting specializing in consumer product safety, by evaluating product designs, warnings and instructions in order to identify hazards and reduce risks to consumers. Ms. Pollack-Nelson was a Human Factors Psychologist at the CPSC from 1988 through 1993.

Cash, Krugler & Fredericks, LLC is a law firm representing victims and their families in cases involving catastrophic injury and death. The firm pursues this petition on behalf of the families with whom they have worked whose children have suffered brain injuries, paralysis and other disabilities due to residential elevator hazards.

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- Another child who was racing up a nearby stairway to beat the elevator opened it, saw the victim wedged within it, and ran to seek help;
- Rescue workers worked for four and one-half hours to free the child; he died while still trapped.⁵

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⁶The Herald Statesman, August 20, 1978;

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- The distance to the peak of the accordion door was approximately 5", but valleys were much deeper;
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- The accordion-style gate was not closed, allowing the boy's body to be extended outside the door as the elevator started moving up;
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- The owner of the residence went to use the elevator and was unable to open the door;
- The fire department was notified and upon responding and opening the downstairs elevator found the girl pinned in the elevator shaft between the elevator and shaft walls.

¹³ ASME A17 Residence elevator committee 2006 meeting minutes

¹⁴ The Dallas Morning News, Sunday June 20, 2004, Page 3B;

http://newspaperarchive.com/us/texas/harlingen/valley-morning-star/2004/06-20/page-3

¹⁵ The Dallas Morning News, Saturday June 19, 2004, Page 2B;

¹⁶ Caroline Beach Police Department, North Carolina, Incident/Investigation report July 23, 2006

November 2013: Ten-year old boy suffered catastrophic brain injury and quadriplegia, entrapped and pinned under elevator car Murrells Inlet, South Carolina

- Ten-year-old boy suffered a catastrophic brain injury when he became trapped in an Elmira residential elevator manufactured by Cambridge Elevating, Inc. out of Cambridge, Canada;
- As the elevator began to rise with the car gate open, the child peered over the edge of the car platform and down into the elevator shaft;
- As the car continued to rise, the child's head came into contact with the doorframe, pinning his head under the elevator car;
- The car continued to rise up to the third floor, where the child was found laying face down on the floor of the elevator car with his head and neck trapped under the car platform;
- The jaws of life were eventually required to rescue the child from the elevator;
- In addition to multiple fractures, he suffered catastrophic brain injury.

¹⁹ Jordan Nelson Elevator Incident report date September 5, 2014; http://www.saferproducts.gov/ViewIncident/1427183

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UNITED STATES CONSUMER PRODUCT SAFETY COMMISSION

Petitioners:
The Safety Institute
Carol Pollack-Nelson, Ph.D., Independent Safety Consulting
Cash, Krugler & Fredericks, LLC

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¹³ ASME A17 Residence elevator committee 2006 meeting minutes

¹⁶ Caroline Beach Police Department, North Carolina, Incident/Investigation report July 23, 2006

November 2013: Ten-year old boy suffered catastrophic brain injury and quadriplegia, entrapped and pinned under elevator car Murrells Inlet, South Carolina

- Ten-year-old boy suffered a catastrophic brain injury when he became trapped in an Elmira residential elevator manufactured by Cambridge Elevating, Inc. out of Cambridge, Canada;
- As the elevator began to rise with the car gate open, the child peered over the edge of the car platform and down into the elevator shaft;
- As the car continued to rise, the child's head came into contact with the doorframe, pinning his head under the elevator car;
- The car continued to rise up to the third floor, where the child was found laying face down on the floor of the elevator car with his head and neck trapped under the car platform;
- The jaws of life were eventually required to rescue the child from the elevator;
- In addition to multiple fractures, he suffered catastrophic brain injury. 19

¹⁹ Jordan Nelson Elevator Incident report date September 5, 2014; http://www.saferproducts.gov/ViewIncident/1427183