

**LOG OF MEETING
DIRECTORATE FOR ENGINEERING SCIENCES**

SUBJECT: Meeting of the ASTM Crib Mattress Cyclic Testing task group

DATE OF MEETING: 24 July 2019

PLACE OF MEETING: Virtual (teleconference)

LOG ENTRY SOURCE: Hope Nesteruk (ESMC)

COMMISSION ATTENDEES: Hope Nesteruk (ESMC), Jill Jenkins (EXEC), Suad Wanna-Nakamura (HSPP), Steve Harsanyi (ESHF) & Max Sanborn (LSM)

NON-COMMISSION ATTENDEES: Contact ASTM for attendee list.

SUMMARY OF MEETING:

The goal of this task group is to evaluate cyclic impact testing performance requirements in the crib mattress standard to address the hazard of lacerations caused by broken coil springs.

Cyclic Testing

CPSC staff discussed the results of additional impact testing we had conducted on crib mattresses as requested by the task group. Tested with a 30 lbs impactor and 250 cycles when tested in a solid wood crib with a metal spring based. Additional testing was conducted to 500 and 700 cycles with a plywood sheet under the mattresses over the spring-supported base. No signs of spring breakage were found.

One manufacturers reported testing 30 lbs at 200 cycles, 500 cycles, and 1000 cycles and found no signs of spring breakage. A second manufacturer reported they planned to test with a steel shot bag using both a solid and a metal spring support, but had not been able to perform the testing yet.

Next meeting will be middle of September, when the task group will reconvene and discuss the results of all testing and resolve the number of cycles, test weight, and support structure for the proposed test.