United States
Consumer Product Safety Commission

MEETING LOG

SUBJECT: ASTM F15.22 Toy Water Bead Sample Size Task Group Meeting Log

OP PLAN ENTRY: Toys

DATE OF MEETING: 3/13/2025

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Benjamin Mordecai (LSM)

FILING DATE: 3/28/2025

CPSC ATTENDEE(S): Benjamin Mordecai (LSM), Matt Kresse (LSM),

NON-CPSC ATTENDEE(S): Contact SDO for the full attendee list.

Summary of Meeting:
The task group met to discuss the sample size required to test representing the large quantities of toy water bead products on the market. A task group member opened up the discussion referencing the sampling procedures in ASQ/ANSI Quality Standards Z1.4. Questions were raised on whether that standard was appropriate. CPSC staff mentioned the sampling chart for clacker balls and inquired as to the origins of the sampling size, which is believed to come from ANZI Z1.4. The chart described in 16 CFR 1500.86 allows for multiple failures for clacker balls with samples more than 500 units for some tests. The task group agreed that, when testing water beads, one failure should constitute a failure for the entire lot. Another task group member introduced a C=0 sampling plan, which allows for an acceptable quality limit (AQL). CPSC staff requested that a statistician fact check the numbers in the clacker ball chart and provide a basis. Task group members discussed whether a confidence level of 90 or 95 was acceptable. A 95-confidence level would require many more samples to be tested. The task group discussed how to collect the samples to test and whether it should be the largest ones, or a blend of all beads. A task group member introduced the idea of sieves to separate larger beads from smaller beads. Due to the vast quantities of beads likely to be tested, a task group member raised the idea of using a sieve to test for compliance.

Next Steps:
The task group requested that CPSC staff discuss sampling with a statistician in the Epidemiology Department and potentially invite them to the next meeting. Bureau Veritas volunteered to talk to one of their statistical engineers.