



MEETING LOG

SUBJECT: ISO/TC229 Nanotechnology WG3 (Health, Safety, and Environment) Meeting Log

FY26 OP PLAN ENTRY: Nanotechnology

DATE OF MEETING: 5/22/2026

LOCATION OF MEETING: Sydney, Australia and Virtual

CPSC STAFF FILING MEETING LOG: Matthew Cho (HSTR)

FILING DATE: 6/4/2026

CPSC ATTENDEE(S): Matthew Cho (HSTR); Staff attended this meeting virtually.

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

Summary of Meeting:

- From May 17 to 22 (May 18 to 22, Sydney, Australia local time), International Organization for Standardization (ISO) Nanotechnology Technical Committee (TC 229) WG3 discussed multiple projects and their status during the spring meeting.
- Three new potential new work items (NWIP): evaluation guideline for weathered quantum dots; nanomaterial toxicity assessment with freshwater planarians; and protocol for nanoparticle-based enzyme-linked immunosorbent assay (ELISA).
- ISO/PWI 25701, "Intratracheal instillation procedure for the even distribution on nanomaterials in the rodent lung." CPSC staff asked a question regarding the validation methods for the development of experimental procedures. A project participant answered that use of labeling nanoparticles in intratracheal instillation can be part of the validation process to measure the distribution of nanoparticles.
- ISO/AWI 21523, "Nanotechnologies - Analysis of biotransformation of inorganic nanomaterials in pulmonary toxicity studies." CPSC staff asked about the mechanism of transformation of nanomaterials in biological systems. The presenter answered that the studies on mechanism of nanomaterial transformation are out of scope in the document; however, information on the mechanism is in the annex of the document. (Surface modification in the system followed by chemical binding, but not enzymatic metabolism (Phase I and II associated) or protein corona formation.)
- ISO/PWI 25914, "Gold nanoparticles as positive and negative controls for in cell viability measurements." CPSC staff asked what types of cell line were used to evaluate the gold nanoparticles because there may be significant differences in sensitivity of cytotoxicity. A presenter answered that 8 human or non-human cancerous or normal cell lines were used to evaluate the gold nanoparticles *in vitro* system.
- ISO/AWI 23653, "Experimental considerations when evaluating the efficiency of nanoparticle uptake," and ISO/PWI 25402, "Nanotechnologies – Reliability evaluation of antiviral activity on non-porous nanocoated surfaces." (joint meeting of WG3 with WG5 (Products and Applications))
- Draft project: "Management of industrial and other wastes from the manufacturing, processing, and



research and development activities of engineered nano-objects.”

- “Nanotechnologies – Determination of cisplatin in nanoparticles – Spectrophotometric method using o-phenylenediamine.”
- ISO/PWI 24864, “Safety assessments of nanomaterials for use as fertilizers in agriculture.” Participants discussed the draft structure for the proposed technical report and indicated that limited information on man-made nanomaterial fertilizers is available. CPSC staff asked whether the proposed nanomaterials have nutritional or agricultural benefits. The WG3 Chair requested CPSC staff to identify which federal agency is responsible for regulating agricultural fertilizers. CPSC staff will follow up with the WG3 Chair and ANSI staff.
- ISO/PWI 25648, “Nanotechnologies – Iodine radiolabeling method to detect the distribution of nanomaterials in mice.”

Next Steps:

CPSC staff will follow up with the WG3 Chair and ANSI staff about U.S. jurisdiction for agricultural fertilizers.

The 50th ISO/TC229/WG3 meeting will be held in Queretaro Mexico from October 19 to 23, 2026. Staff plans to attend this meeting virtually.