







Session: Environmental Monitoring - Need for preventive controls & verification possibilities



 For example, there was no scientific justification for the sampling plans utilized for environmental monitoring in areas that your firm uses to manufacture terminally sterilized injectables. This included the frequency and locations of viable airborne particulate sampling activities, the locations of non-viable airborne particulate sampling activities, the frequency and locations of non-product contact surface monitoring, and the evaluation of microorganisms found through environmental monitoring activities.



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Although we acknowledge your use of formal risk implementing assessments in these revised environmental monitoring procedures and bioburden testing, your response is still deficient. In your response, you downplay the product quality and safety impacts posed by the mold observed on the clean side of HEPA filters supplying air to your sterile filling areas on the grounds that products made in these areas are terminally sterilized. Please note that sterile products be should protected from microbiological contamination during processing, even when terminally sterilized, in order to minimize sterilization challenge and byproducts of excessive bioburden.



















Step 6

Durability of aircraft windscreens and engines

• A chicken gun is used to test the durability of aircraft windscreens and engines. A thawed chicken is fired out of the gun using compressed air, in an effort to simulate the impact of a bird hitting the plane in flight.



Effective design of Process Simulation runs

- Challenging manufacturing operations through media fills is a known method.
- Challenging paraphernalia is real fun.







To conclude



- Have we established fair amount of controls, that include scientifically sound and appropriate specifications, standards, sampling plans, and test procedures, for EMP?
- If yes, do we have breathing space below our radar?

