

## **POF025: General platform presentation**

### **DEVELOPMENT OF REQUIREMENTS FOR THE SPECIAL APPLICATION CBRN AS PART OF THE ISO RESPIRATORY PROTECTIVE DEVICE STANDARD**

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#### **Abstract**

The International Organization for Standardization (ISO) exists to facilitate the international coordination and unification of industrial standards. As part of the overall programme to develop performance requirements for respiratory protective devices, work is under way to address CBRN and RN-capable respiratory protective devices. The draft specification in preparation is incorporating the best current knowledge on human factors, protection requirements, operational needs and compatibility with other equipment.

The primary target user community comprises first responders in the police, fire service, emergency medical, primary health care (first receiver), search and rescue, sampling and detection teams, and trained workers needed for specific roles during response such as for utility, transportation and service continuity.

The draft specification is still under development, and requirements are being developed in consultation with the responder user community as much as possible. Primary considerations for performance criteria are to support the needs of the first responders as strongly as possible by setting out device requirements which address:

- Three device classifications covering First Receiver operations
- CBRN Escape devices for the regular workforce
- Work rates and protection levels respecting foreseen hazards and operational needs
- Permeation protection against aggressive chemical agents
- As minimal physiological burden as practicable, balancing protection and work rate needs.
- Straightforward decision making for in-field deployment and use
- Simple logistical choices including the option of standardized connections between system components and the opportunity for the same type of filters to be used directly on face-pieces and on powered air devices.

There is also work on requirements to address respirators specifically for use in workplaces and in emergencies involving radiological-nuclear materials.

The result of the Task Group activity will be the definition of performance criteria for CBRN- and RN-capable respiratory protective devices and for escape systems for incorporation into the ISO Respiratory Protective Device Standard as a technical specification.