

NBC FILTRATION SYSTEM WITH A STATUS INDICATOR

ABSTRACT

The present invention describes an NBC filtration system with a self powered status indicator providing accurate indication of the rate of airflow and an emergency illumination capability. According to the invention, there is provided an NBC filtration system [10] (Fig. 1) comprising an NBC filter unit [16], a blower [20] and a self powered status indicator [30]. The status indicator [30] comprising: an air turbine blade [32] fitted in the air pathway of the NBC filtration system, an electric generator [34] mechanically coupled to the air turbine blade [32], a controller [38] and a human interface [40]. The electric generator [34] provides electric power for the controller [38] and the human interface [40]. The controller [38] provides status information through the human interface [40], indicating at least the rate of airflow. The NBC filtration system may further comprise a light source [36]. The electric generator [34] provides electric power for the light source [36] as well.

Figure 1