CBRN-Recon

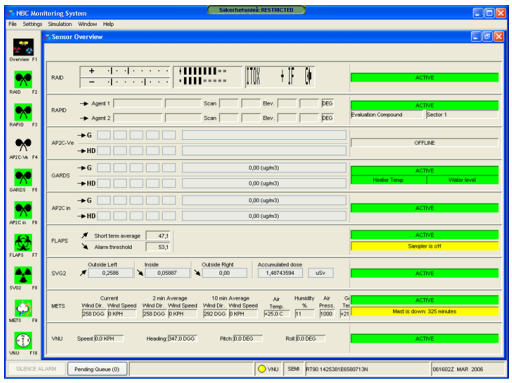
CBRN sensor monitoring system for military land platforms

CBRN-Recon is a monitoring system that controls the sensor suite of any land platform including CBRN reconnaissance vehicles.

It meets the requirements to:

- Provides an overview of all vehicle CBRN sensors, indicating alarms and fault/maintenance conditions
- Displays vehicle location in relation to expected or actual CBRN contamination
- Receives immediate warning if the vehicle enters Chemical, Biological or Radiological hazards
- Optimizing the use of multiple sensors to reduce false positives
- Issue information of encountered hazards to command and neighboring units as well as Joint/Coalition Headquarters
- Facilitate training based on simulated hazards in a synthetic environment

CBRN-Recon provides:



- Interfacing to all CBRN Sensors inside and outside of vehicle
- Overview display with status of all sensors Visual and audible/intercom alarm if sensor alarms
- Detailed Display to analyze sensor output
- Displays the sensor maintenance information
- Remote control of sensor configuration
- Reporting of CBRN detections using NATO formats

Reference:

Bruhn NewTech's sensor integration system is used on CBRN Reconnaissance vehicles, such as the US Army CBRN Stryker (Piranha IIIC based), the US Joint JSNBCRS, Swedish and Bulgarian CBRN vehicles. It has also been part of the UK TDP program and is also in operational use as a naval variant for the Italian, Spanish, Dutch and Belgium navies.

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Key Features

Sensor Monitoring

CBRN-Recon provides an overview of CBRN Hazards based on sensor results from inside and outside the vehicle. Results from all sensors are linked into the system and presented as a simple overview or as more detailed information for each sensor.

Sensor Maintenance and configuration

If sensors are in a fault condition or require maintenance CBRN-Recon displays the relevant warnings to the operator. Status on consumables can also be monitored. Sensors can be configured remotely from the software for example to change the sensor mode of operation.

Sharing of information

CBRN-Recon seamlessly feeds CBRN information to a Joint Common Operational Picture by transmission of NBC reports. Reports are formatted in accordance with NATO standards to allow interoperability.

Sensor Connectivity

The system allows collection of sensor data and formatting of that data into standard CBRN messaging for further dissemination through most built-in communication systems.

Vendor Independent

CBRN-Recon interfaces to any sensor from any manufacturer. More than 25 sensors have on request. As customers often combine sensors to find the best mix for their requirement been interfaced already and additional sensors will be integrated, a single monitoring system that includes sensors from all manufacturers is required.

Situational Awareness

CBRN-Recon provides real-time CBRN situational awareness. As an optional feature for hazard management, CBRN-Recon can include the NBC-Analysis Warning and Reporting system that displays a geographical overview of all CBRN Hazards compared to the vehicle position.

Simulation

CBRN-Recon optimizes training by using a realistic simulation module. Based on the hazards planned by the instructor, the sensors will react realistically when entering the simulated hazard area, either based on the actual vehicle position in field exercises or based on a simulated position for training in a stationary vehicle or in the classroom.

Hardware

Can be delivered with Mil-Spec hardware, or run on existing equipment.

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