

An Operator's Life is in Danger.

1

A safety shower is activated somewhere in the plant. Time is of the essence.



2

A Digital Input Device reports the activation through a robust and secure mesh network



3

Control Room and Plant Personnel are alerted of the activation and location of safety shower on process control system displays.

4

Location data is sent via SMS, Page, or email to First Responders, who quickly arrive to provide medical attention to the operator.



A Smarter Solution from



and



Improving Employee Safety

In highly automated facilities, many areas of the production process are unmanned. This presents challenges for adequate personnel safety and prompt response in the event of an emergency.

To improve personnel safety and assist in the deployment of first responders, NovaTech, LLC has partnered with Eltav, LTD to develop a cost effective Safety Shower Monitoring solution.

Eltav's proven and award winning wireless technology provides a cost effective solutions to monitor the position of manual and actuated valves throughout many industrial facilities, including Safety Shower Valves.

The Eltav solution delivers initial benefits to enhance personnel safety and can be installed at a fraction of the cost of alternate wired solutions, and can be installed on the same IEEE 802.15.4 2.4 GHz Standard network used to monitor the plant's other valves.

Facilitate OSHA Compliance

The Safety Shower Monitoring Solution adds the additional benefit of automated and time-stamped DCS verification of safety shower testing audits that can produce monthly reports and generate alarms if showers are not tested within a specified time period.

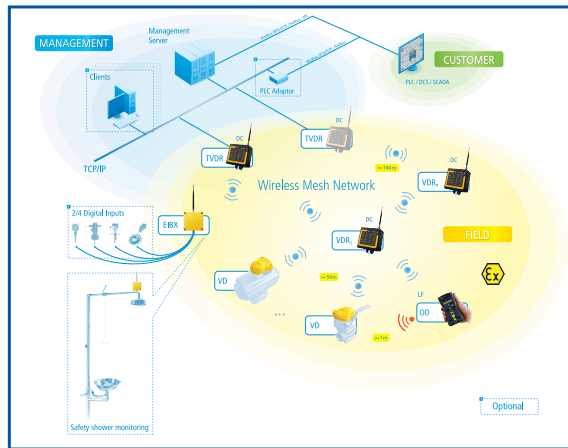
Safety Shower Inspection : January 2012

	Shower	Operator	Date	DCS Verification
<input checked="" type="checkbox"/>	Boiler #1	Phil	Jan 13, 2012	Open 1/13/2012 3:34:27pm Close 1/13/2012 3:34:37pm
<input checked="" type="checkbox"/>	Boiler #2	Dan	Jan 13, 2012	Open 1/13/2012 1:18:17pm Close 1/13/2012 1:18:25pm
<input checked="" type="checkbox"/>	Boiler #3	Phil	Jan 14, 2012	Open 1/14/2012 2:14:27pm Close 1/14/2012 2:14:37pm
<input checked="" type="checkbox"/>	Lab #1	Joyce	Jan 13, 2012	Open 1/13/2012 3:31:05pm Close 1/13/2012 3:31:14pm
<input type="checkbox"/>	Lab #2	Dan		None
<input type="checkbox"/>	Lab #3	Joyce		None
<input type="checkbox"/>	Drying Room #1	Joyce		None
<input type="checkbox"/>	Drying Room #2	Joyce		None

Hardware and System Specifications



Safety Shower Monitoring Device	
Digital Inputs	Two or Four digital dry contact inputs
Max contact resistance	1,000 ohm
Calibration and setup	Using wireless hand held Operator Device (OD) with short range Low Frequency wireless communication
Battery	Battery Pack with 2 Lithium 1/2 AA Tadiran TLL5902, Field replaceable
Battery Life	8 years assuming one input change per 10 minutes, in nominal configuration
Response Time	Average of 100 ms or better
Frequency	IEEE 802.15.4 2.4 GHz
RF max Power Transmitted	+3dbm
RF Antenna	External, 2 dBi with Male SMA Connector
Communication range	Open space - ~220ft
Additional Measurements	EIBX internal temperature, battery voltage, wireless reception and unit housekeeping parameters
Size	3.22"x3.16"x2.16"
Operating Temperature	-40° to 176° Fahrenheit
EIBX sealing	IP66



* IEEE 802.15.4 2.4 GHz is a mesh network protocol targeted at radio-frequency (RF) applications that require a low data rate, long battery life, and secure networking.

Copyright © 2011 NovaTech, LLC. All rights reserved. All brand and product names mentioned in this document are trademarks of their respective owners. NovaTech is a registered trademark of NovaTech, LLC. The information in this literature is subject to change without notice and is not to be construed as a warranty. DS_SafetyShowers_110811

Contact:

NovaTech Process Solutions, LLC T: 410.753.8300
 11500 Cronridge Dr., Suite 110 Toll Free: 800.253.3842
 Owings Mills, MD 21117 www.novatechweb.com