

Legionella Monitoring to Improve Prisoner Safety in Irish Prisons

Partnered with Brennan & Co, Invisible Systems provided automated reporting and enabled significant time savings, all whilst improving the safety of Irish prisoners, leading to a roll out of the I-System within prisons across the entire country.

The Challenge

When a prisoner passed away due to an outbreak of Legionella in Maghaberry Prison in Northern Ireland, responsibility was apportioned to the Prison Governor after an investigation into prison practices.

Invisible Systems and distribution partner Brennan & Co approached the Health & Safety Department in the Irish Prison Service and discussed with them the possible need for operating a successful water management system in their prisons to meet National Guidelines and the need for a flushing regime to be put in place.



The Solution

Even though they were aware of the guidelines and responsibilities for carrying out such a regime, they felt it was going to be a very difficult task. Even a risk assessment appeared daunting given the limitations and challenges offered by a prison regarding access to all the locations that may require monitoring.

Invisible Systems were able to demonstrate our real-time data platform, Real-Time Online, which allowed the remote location of water flow temperature probe transmitters within the pipework of the facilities. Reducing the requirement for regular access to all areas of the prison.

This solution provided a thorough overview of the issues that could arise in relation to the monitoring of hot and cold water temperature and ensured compliance with national guidelines.

All probes were located away from prisoner access at all times. In the event of any recurrence of a legionella outbreak, the solution demonstrates all practices were being adhered to within the National Guidelines.

Project Outcomes

Following the implementation of our I-System solution, the prison were able to:

- Provide accurate information on water temperature.
- Demonstrate areas where there were failures to achieve the required temperatures on site.
- Confirm the performance of flushing policies to meet national guidelines.
- Deliver information on which outlet were meeting guidelines without the requirement to flush numerous times
- Confirmed stored water was maintained at correct temperature levels
- Automate weekly and monthly reports to ensure Chief Trades Officers are aware of the performance of the prison's water supply system.

Installation

Installation for all 15 prisons was completed within a three month period.

Occasional planned return visits are required to all sites for general maintenance and to resolve any potential network or battery issues but this is infrequent.

An eight year contract was agreed with the Irish Prison Service to ensure continuity of service and safety across the prisons. We are now entering our 6th year of service and are looking to extend.



Ready to take control of your data?

For a comprehensive consultation on needs of your business, talk to the Invisible Systems team today.

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