



CASE STUDIES



SCADA Failure Alarm System for Laboratories

Contact	
Contract Manager	-
Senior Project Engineer	-
Post Project Engineer	-

Client	-
Date	-

Scope
<p>Our client, Public Health England (PHE) had a number of labs which contained various valuable samples. PHE required kept these sample under tightly controlled conditions. Laplace Building Solutions were approached by PHE to design, manufacture and install an independent alert system to monitor and react to the catastrophic failure or critical lab equipment which may affect the samples.</p> <p>The specification for the project was to provide an independent monitoring system, capable of interfacing with the various items of equipment within the labs. The system was to provide an audible alert if it detected a failure in the equipment being monitored. This equipment monitored included refrigeration units, freezers, pressure containment monitors and oxygen depletion systems.</p> <p>Our solution was to design standalone monitoring system capably of interfacing with the various items of lab equipment. Given the criticality of the samples, our system incorporated a redundancy server and network strategy. This comprised of a Wonderware Intouch SCADA system, Schneider M340 PLC, Wago RTUs and Ethernet equipment, installed on tow fibre rings.</p>