



Case Study

The Background

The Australian Embassy required an emergency lighting upgrade at its headquarters in London.

Officially known as Australia House, the building is home to the Australian High Commission and Consulate. Located in the heart of the City of Westminster, London, Australia House is a grade II listed heritage building.

Over its extensive life, Australia House has experienced numerous refurbishments and fit outs resulting in multiple complex emergency lighting installations within the building.

International consultancy WSP engaged Clevertronics as the emergency lighting supplier and together created an upgrade solution that consisted of two main elements:

1. An assessment to ensure the buildings' emergency lighting met the current UK compliance standards for safe egress during an emergency.
2. The installation of a new emergency lighting system to simplify and modernise the operation, testing, monitoring, and maintenance of the building's emergency lighting fittings.

The Challenge

Due to the age of the building, its heritage status and architectural complexity, the biggest project challenge was navigating the unknown elements that could not be assessed until the contractors were on site. A good example of this was understanding the existing wiring routes taken by cable submains and final circuits to luminaires, many of which could not be ascertained without intrusive surveys.

Because maintaining emergency lighting compliance was a critical part of the building's operation, the project was separated into two phases based on priority areas within the building.

The first phase consisted of replacing and upgrading the main egress and staircase emergency and exit lighting, as well as other high traffic areas. The second phase included

Project Name

Australian Embassy

Location

London, United Kingdom

Industry Application

Heritage

Project Type

Existing Emergency Lighting Upgrade

Year

2021

Engineer

WSP

Product Range

L10 Lithium Nanophosphate

Testing System

Zoneworks XT HIVE

Products Featured

Lifelight PRO Recessed, Lifelight SM, Ultrablade PRO Recessed, Ultrablade PRO SM, Circlite/ Disc-Luminaire, Weatherproof Emergency

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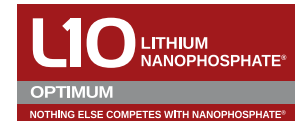
creating additional egress areas and addressing the emergency lighting requirements of the rest of the building.



The Solution

The solutions delivered by Clevertronics were carefully designed to meet the client's requirements around site access and simplifying the maintenance of the building's emergency lighting fittings. A key consideration was to minimise disruption of the building while upgrading the existing emergency lighting system. A top priority was given to delivering sufficient lighting to cover all egress areas and provide clear evacuation pathways during an emergency. Clevertronics Zoneworks XT HIVE system was chosen to manage the operation, testing, monitoring, and maintenance of the building's emergency lighting fittings. A benefit of the system is its wireless mesh technology that offers superior monitoring and the automatic testing of emergency lighting fittings, ensuring peace of mind from continued ongoing compliance.

An additional benefit of Zoneworks XT HIVE's wireless system meant less hardware, cabling, and commissioning, reducing installation time and contractors on site. This was enthusiastically welcomed by the client due to the intrusive nature of electrical works and the risk of potential delays. Another advantage of choosing Zoneworks XT HIVE is Clevertronics' complimentary lifetime support offered through the Advantage Lifetime Support (ALS) program. Designed to help building owners & end users manage the ongoing health of the system. Advantage Lifetime Support (ALS) program, is installed on all Clevertronics Zoneworks HIVE systems, therefore Australia House will receive free support for their HIVE system for the lifetime of the installation. ALS is made possible, in part, due to our L10 Lithium Nanophosphate products, which have an unrivalled warranty and has been engineered with a 12+ service life in mind. (See website for details of our ALS Program).



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The Result

This project is a crowning achievement by all parties involved. Four hundred plus emergency luminaires have been installed, commissioned, and tested. Full training has been deployed to the client and facility manager to ensure that they are able to confidently use their new HIVE testing system. As Jason Li of WSP says, “We've had great responses and feedback from the team with regards to the ease and simplicity of the Zoneworks XT HIVE interface. With a few clicks, the team can now automate scheduled tests of the luminaires on a consistent monthly basis and plan for a yearly 3hr test. Better still, they can visually assess the performance of the system as the installation completely simplifies the overall management of each luminaire.”

Continuing, Jason describes “In the past, this would have taken days to inspect each month at great difficulty and expense due to the nature of the building. Now being automated, it directly reduces labour time and costs and any likelihood of human error. This single, easily manageable, emergency lighting system is the future and is certainly something we will be using more of.”

Find Out More

The Australian Embassy is another quality project delivered by Clevertronics. If you would like further information about this case study or are interested in understanding more about Emergency and Exit lighting within your building, contact Clevertronics for a site audit, demonstration, and cost analysis report.