

Deeside Resin Modernisation Project – Building Extension Overview

This overview covers the erection of a new steel framed, composite clad building extension to the existing Resin Plant main building at the Deeside site.

The project is taking place at the Valspar (UK) Corporation Limited Deeside site which is part of the European packaging division of Valspar. The site produces intermediate and finished products for the food and beverage packaging global market. The site houses a coatings production facility and a resin plant along with associated bulk storage and utilities.

The Deeside Resin Modernisation Project revolves around the upgrading of the existing resin plant from manual to automated control through the installation of a Distributed Control System (DCS) and the required valves and instruments to allow this to operate the existing plant. Although the project is providing the opportunity to carry out some large scale maintenance activities and some small scale mechanical modifications no additional vessels, processes or capabilities are being added to the plant. This project is driven by the need for protection of supply to the current main resin products.

One of the major facets of the project is an extension to the current plant building which will house a server/cabinet room for the new control system hardware and improved operator space (including control room, laboratory and storage room). The extension is sited on the south side of the existing plant main building directly over the existing single story MCC building.

The extension is as steel formed building with composite cladding having a profiled exterior made to blend in with existing plant structures. The new steel work is tied in directly to the existing steel work and the extension sits directly against the existing structure. The building is 12m high at the tallest point and provides two floors above the ground level which has been left open to prevent interference with the existing MCC building and emergency access and egress. The roof is a single slope angled to match existing profiles.

Access to the new floors is via the existing stairwell located within the south west corner of the Resin plant.

Please see drawings for details of steel work and building layout.

The new structure has guttering along each wall at the lowest point which feed into a single downspout and then to the site surface water drain via the existing MCC building drain.

The first level of cladding is continuous with no breaks on the outer walls and the second level has three rectangular windows one in each external wall. The internal walls have been plastered and painted, the floor is polished concrete with an industrial epoxy floor coating.

The first level is a one large open room which will be used to house server racks and control system cabinets. This will not be manned on a regular basis.

The second level is split into three areas. The central area is the new Resin Plant control room, westerly section is the new production laboratory for in process testing and the easterly section will be a small storage area for operator PPE. This floor will be manned 24/7 under normal operation.

