ENVIRONMENTAL SUSTAINABLE SOLUTIONS LTD

INSPECTION AND VALIDATION REPORT

BEMUS CONSTRUCTION SERVICES LTD

D3 SIEMENS DIDSBURY

Prepared by: **Karen Day**

Environmental Sustainable Solutions Ltd

Environmental Sustainable Solutions Ltd

Inspection and Validation Report

Project: D3 Siemens, Didsbury

Main Contractor: North Midland Construction Ltd

Consultants: Booth King Partnership

Alderburgh Ltd

Installer: Bemus Construction Services Ltd

Project Requirements:

A continuous gas barrier was required across the building footprint, ensuring that all penetrations were fully sealed to prevent gas ingress. The Gas Characteristic Situation was identified as CS2 (Ciria 665), with gas protection measures to be in accordance with BS8485:2015.

Assessment of the scheme is outside the scope of this report.

North Midland Construction Ltd engaged Bemus Construction Services Ltd to install the gas protection measures.

The scheme involved:

Alderprufe GRA gas barrier over the building footprint

Alderprufe MR50 & Backerboard HD protection to the lift pit walls

Preformed column cloaks

Preformed pipe collars and / or sealing to pipes

Two inspection visits were made to site (10.5.18 & 21.5.18); copies of the report sheets completed at the time are included with this final report.

In addition to the comments in the site visit reports, photographs were taken. A selection is reproduced here to demonstrate best practice undertaken.

Preformed Collars and Cloaks should be used where ever possible to seal around penetrations, example of best practice below; a column cloaks has been heat-bonded to the steel to ensure a good seal.



Many of the drainage pop ups came off a shallow rest bend, which made it very difficult to use preformed pipe collars. Bemus formed their own pipe seals on site – we watched this one being formed to ensure all parts were fully sealed.



Base preparation was very good, there were no sharp stones in the blinding which could damage the membrane



100mm tape was used (as required), which easily maintains the 100mm overlap specified.



The installed gas protection measures inspected were in accordance with manufacturer's requirements, with the design, and with the requirements of a CS2 classification.

Signed:

Karen Day

Environmental Sustainable Solutions Ltd