BBC, Stand-by Generators, London, UK

CDM-MACHINE-FLOAT & MONT

Client	**BBC**
Main Contractor	**Bovis LendLease**
Architect	**McCormac Jamieson Pritchard**
Acoustic Consultant	**Bickerdike Allen Partnership**
Structural Engineer	**Whitby Bird & Partners**
Area	**2 no. inertia bases 30m^2**

Image of completed project

- Egton House is one of the new buildings directly adjacent to the famous Broadcasting House on Portland Place, just north of Oxford Circus in the heart of London's West End. The sub-basement of the new building houses the stand-by generators for the whole of Broadcasting House. This consists of 2 no. 30 tonne generators which when running generate very high levels of noise and vibration.

- The generator room is located near to several studios and as such it was imperative to ensure that noise and vibration from the generators do not disturb the broadcasting capabilities of the BBC.

- Each generator sits on a 350mm thick inertia base that has been jacked up 50mm using CDM-MACHINE-MONT jacks with springs designed to take approximately 4000kg each and giving a maximum natural frequency of 3.3Hz.

- The inertia bases along with the CDM-MACHINE-FLOAT floating floor form part of the box-in-box construction protecting the BBC from the noise and vibration created by the generators.

CDM-MACHINE-MONT prior to reinforcement and concrete

CDM-MACHINE-MONT

Industry

Project Reference

CDM-UK PO Box 7035 Melton Mowbray Leics LE13 1WG Tel: +44 1664 482486 Fax: +44 1664 482487 mailto: info@cdm-uk.co.uk http://www.cdm-uk.co.uk