



NTD Shielding install RF chamber for the BBC

During 2019 NTD Shielding Services installed and commissioned a high-performance RF chamber for the BBC. This was at BBC Research & Development's South Laboratory, The Lighthouse, at Wood Lane, Shepherd's Bush, West London. Fundamental to this project were a variety of MPE's high-performance power line EMC filters, incorporated into NTD's RFI-shielded chamber as part of the overall integrated system solution.

With headquarters at St Helens, Merseyside, UK, NTD Shielding Services are independent specialist providers of RF/EMC shielding solutions and technical consultancy, with over 25 years of accumulated rich expertise and experience in electronic test and measurement applications across the UK, USA and EMEA region.

The company is proud to have grown to become a world-leading designer, manufacturer and supplier of high-performance EMC, EMI, antenna and RF test chambers, Faraday cages, 5G solutions and EMC test and measurement systems. Test chamber upgrades, modifications and relocations are part and parcel of their services, as are overall project management and facility service and maintenance.



NTD engineering teams out in the field are focused on installing bespoke integrated turnkey solutions, complemented by an internationally renowned range of EMC/RF test and measurement systems and many other EMC/RF-related products. NTD design in-house, manufacture and install their advanced, high-performance test chambers and integrated testing solutions with particular emphasis on the user-friendliness and day-to-day practicality of their systems.

The high-performance chamber which they installed for the BBC measures 2.4m high x 2.4m long x 3.6m wide and incorporates a full electrical package with fibre-to-data conversion. Within this, MPE filters are vital to provide protection and electrical immunity for the incoming power lines, a Vesda fire detection system and a "Test-in-Progress" status warning light.

External views of the RF chamber designed, manufactured and installed by NTD Shielding Services for BBC Research & Development's South Laboratory in West London

MPE's EMC filters were specified to ensure the high efficiency of the RFI shield and also the EMC compliance of the whole electrical system and each of its incoming lines. The power line filters manufactured by MPE for this application provide 100dB of insertion loss performance across a full frequency range extending to over 20GHz. A variety of MPE filters for up to 32A current were required to meet the demands of the application.



For detailed information on NTD Shielding Services and what the company offers, check out www.ntdshielding.co.uk, call their hotline at St Helens +44 (0)1744 757 277 or email their Technical team at sales@ntdshielding.co.uk

A range of MPE filters up to 32A were required to provide essential EMC protection for the incoming power lines as well as EMC compliance for the electrical system as a whole

