



MPE
Quality, Reliability, Performance

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From left to right, the testing team of MPE Design Engineer John Lindsay with Jim Youngman of Jaxon, at Jaxon's test facility in Colorado Springs



Maintaining MPE's strong pulse

In late 2017 MPE contracted the specialist US defence industry test house Jaxon Engineering & Maintenance of Colorado Springs to conduct further independent pulse current injection (PCI) testing of MPE's HEMP protection filters. The testing was completed at Jaxon's test facility in early December 2017.

In attendance and assisting throughout this period of testing was MPE Design Engineer John Lindsay, enabling a flexible approach to the testing program and maximising the use of laboratory resource and time.

PCI testing of MPE's suite of commercial HEMP filters was conducted in line with the Standard IEC 61000-4-24. Accordingly Electromagnetic Compatibility (EMC) Part 4-24 relates to testing and measurement techniques – test methods for protective devices for HEMP conducted disturbance. This Standard was published by the IEC in November 2015.

In addition, testing of several novel proprietary designs, not yet released to market by MPE, was carried out against the current revision of MIL-STD-188-125. Finally, a group of filters, including MPE's 250A HEMP powerline filter, were tested in line with the changes being proposed to the current Military Standard.

The testing undertaken demonstrates once again MPE's continued commitment to ensuring the full compliance and functional performance of all new designs.

With every MPE filter passing well within the limits defined by the current Military Standard or IEC publication as applicable, the test results are a resounding success and further testament to MPE's rigorous design philosophy and manufacturing processes. PCI certificates for all the units tested will be published on the website www.mpe.co.uk in the coming months.

