



# Company Bulletin

for EMC, EMP, HEMP & TEMPEST Protection

## Issue 23



Views of Clear Air Force Base in Alaska



MPE HEMP power line filters of different amperages



Left to right: Terry Murch – TSS, Tom Griffin – TSS, Paul Currie – MPE and David Seabury – MPE

### HEMP filters for Clear AFB power plant in Alaska

After a lengthy and often challenging period, MPE has manufactured and supplied via its Silver territory distribution partner Technical Sales Solutions (TSS) and systems integrator ATEC Shielding LLC (ATEC) of Elkridge, Maryland, USA a suite of high-performance HEMP filters for installation within Clear Air Force Base, located in Denali Borough, Alaska.

In conjunction with TSS, Paul Currie, Director of MPE, first travelled to Clear AFB in July 2015, meeting with representatives from both the US Air Force (USAF) and the US Missile Defence Agency (MDA). Following this initial meeting, a lengthy period of design proving, testing and reliability evidence provision was completed by MPE, ensuring that the MPE solutions fully met the requirements of the site, the MDA, the US Army Corp of Engineers (USACE) and the USAF.

Ultimately the MPE solutions supplied met the demanding performance specification flowed down from Clear AFB. Specifically, requirements included not only compliance with the current Mil-Std-188-125 but also compliance with UL1283.

Additionally, compliance with the USACE filter test specification, section 13 27 54.03, filter section 2.5, paragraph 2.5.5, as well as the United States Department of Defence (DoD) Unified Facilities Guide Specification (UFGS) 13.49.20.03, filter section 2.7, paragraph 2.7.5, was called for which required that additional testing be conducted in the USA, as previously reported in Issue 15 of the MPE Company Bulletin. Further to this, the MPE filters had to be independently evaluated and rated for seismic survivability.

Following installation by ATEC, the HEMP solutions supplied are used to harden the site's power plant, with this being referred to as "Special Protection Measures". The primary power brought into the power plant is then conducted back out of the shielded volume to power chillers, heating systems and site-wide power requirements. The MPE filters supplied are of a modular construction and include both 2-line and 4-line variants, ranging from 32A through to 400A current ratings.

Further details of MPE's modular HEMP filter range can be found at: [www.mpe.co.uk/downloads/hemp-filter-datasheets/](http://www.mpe.co.uk/downloads/hemp-filter-datasheets/). More information on Technical Sales Solutions (TSS), MPE's Silver distribution partner for the USA, is obtainable from [www.techsalesolutions.com](http://www.techsalesolutions.com) or by emailing Terry Murch at TSS, [terry@techsalesolutions.com](mailto:terry@techsalesolutions.com)

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