Pyrotechnic Shock Test Facility

Purpose:

To provide experimentally derived shock loads that simulate the launch environments to which flight hardware is exposed.

The Pyrotechnic Shock Test Facility is a hazardous area equipped for generating dynamic transients with explosive materials. Mild detonating fuses, linear shaped charges, and blasting caps are used to generate flight input transient shock simulation to test hardware commonly mounted on a suspended steel plate. Shock levels up to 30,000 Gs shock response systems (SRS) and 10,000 Hz can be generated. Pyrotechnic devices used in aerospace flight applications can be evaluated and characterized as to the SRS response resulting from detonation.

Twelve channels of transient pyrotechnic response data can be acquired and post-processed in the time domain or SRS for one pyrotechnic event.

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