

STANDARDS DEVELOPMENT

Establishing a New Standard for Safety

DoD Risk-Based Explosives Safety Criteria Team (RBESCT)

This team was established in 1997 by the DoD Explosives Safety Board (DDESB). The team is chartered to develop risk-based techniques to be applied to a variety of situations within the DoD involving explosives materials. The work of this team has resulted in new guidance for siting of explosives facilities; DDESB Technical Paper 14, Risk-Based Explosives Safety Analysis; and the development of a new software tool, Safety Assessment for Explosives Risk (SAFER©) for use by safety professionals world-wide. APT is contracted to provide technical support to the team and to develop and maintain the SAFER© software. The team continues to meet frequently to develop new and improved policies for risk-based applications.

YTC Safety Recommendation Release and Conformation Policy

Helped develop and support application of the Safety Recommendation Release and Confirmation Policy.

Range Commander's Council (RCC) Risk And Lethality Commonality Team (RALCT)

This team was chartered in 1996 to develop common standards of risk protection from inert debris for use at all of the national ranges. APT reported directly to the chairman. APT's responsibilities included coordinating the technical effort; conducting analyses and research; compiling, coordinating, and publishing RCC Std. 321, Common Risk Criteria for National Test Ranges: Inert Debris (RSG). This ground-breaking standard defined, for the first time, acceptable risk criteria and an 8-step

Customers

- Range Commanders Council
- DoD Explosives Safety Board
- USATCES
- Air Force Safety Center
- Naval Ordnance Center
- Marine Corps System Command
- WSMR
- NATO RAWG
- Yuma Proving Ground
- NATO
- UK MOD

APT personnel have helped establish safety programs and standards for local, service, national, and international organizations.

Systems Safety Management Plan (SSMP)

Developed an SSMP which was concurred with by CRTC, TRTC, YTC, Commanders & Directors, and approved by the YPG commander.

Risk-Based Safety Planning Policy (RBSP)

Wrote and started a policy which would allow risk acceptance in accordance with the Range Commanders Council (RCC) standards.

Emergency Evacuation Plan for Yuma Test Center (YTC)

Developed and supported application of an emergency evacuation plan for the Yuma Test Center (YTC) Combat and Automotive Division.

process for conducting quantitative risk assessments. Currently, the team continues to meet infrequently for updates and improvements to the standard.

NATO AC/258 - Risk Analysis Working Group (RAWG)

The NATO Risk Analysis Working Group was chartered to develop and promulgate a manual for international use in explosives risks assessment. The resulting document, AASTP-4 Explosives Safety Risk Analysis Manual, was drafted by A-P-T Research, Inc., improved upon by team members from NATO nations, and published in draft form in February 2001. The team continues to meet periodically to further develop risk-based techniques to improve the safety of operations involving explosives materials.

Accomplishments

- Debris protection criteria for personnel, ships, and aircraft (RCC Standard 321)
- Explosives protection criteria for personnel
- Army regulations, command regulations, installation regulations, and safety plans and procedures
- Secretariat for Government Teams
 - RALCT
 - RBESCT

APT Points of Contact

Tom Pfitzer 256.327.3388
tpfitzer@apt-research.com

James Elliot 973.724.6541
elliott@pica.army.mil

Meredith Hardwick
256.327.3380
mhardwick@apt-research.com

Pete Yutmeyer 256.327.3394
yutmeyer@apt-research.com

Melissa Emery 256.327.3396
memery@apt-research.com



A-P-T Research, Inc.

4950 Research Drive
Huntsville, AL 35805
www.apt-research.com