

STANDARDS DEVELOPMENT

Establishing a New Standard for Safety

ANSI/GEIA-STD-0010

APT personnel participated in a team, under the G-48 Committee to develop the ANSI/GEIA-STD-0010, *Standard Best Practices for System Safety Program Development and Execution*, and have been recognized for their significant contributions in the development and production of the standard. The areas in which APT personnel were recognized for their support include guidance, oversight, early writing, and key reviews; core writing and editorial group; and graphics and document production support. APT was also responsible for compiling a matrix of over 150 comments from an international group of safety professionals, which were

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.

Risk-Based Safety Planning Policy

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

Customers

- Range Commanders Council
- Department of Defense (DoD) Explosives Safety Board (DDESB)
- U.S. Army Technical Center for Explosives Safety (USATCES)
- Air Force Safety Center
- Naval Ordnance Center
- Marine Corps System Command
- White Sands Missile Range (WSMR)
- North Atlantic Treaty Organization (NATO) Risk Analysis Working Group (RAWG)
- Yuma Proving Ground
- NATO
- UK Ministry of Defence (MOD)

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

later incorporated into the standard, and tracking them to closure. The Huntsville-based committee presented a draft version of the standard to the G-48 Committee in May 2008; the finalized version was approved on February 12, 2009.

DoD Risk-Based Explosives Safety Criteria Team

The RBESCT was established in 1997 by the DoD Explosives Safety Board. 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-



RCC Risk and Lethality Commonality Team

The RALCT 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 Standard 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 eight-step process for conducting quantitative risk assessments. Currently, the team continues to meet infrequently for updates and improvements to the standard.

Emergency Evacuation Plan for Yuma Test Center

Developed and supported application of an emergency evacuation plan for the YTC Combat and Automotive Division.

YTC Safety Recommendation Release and Conformation Policy

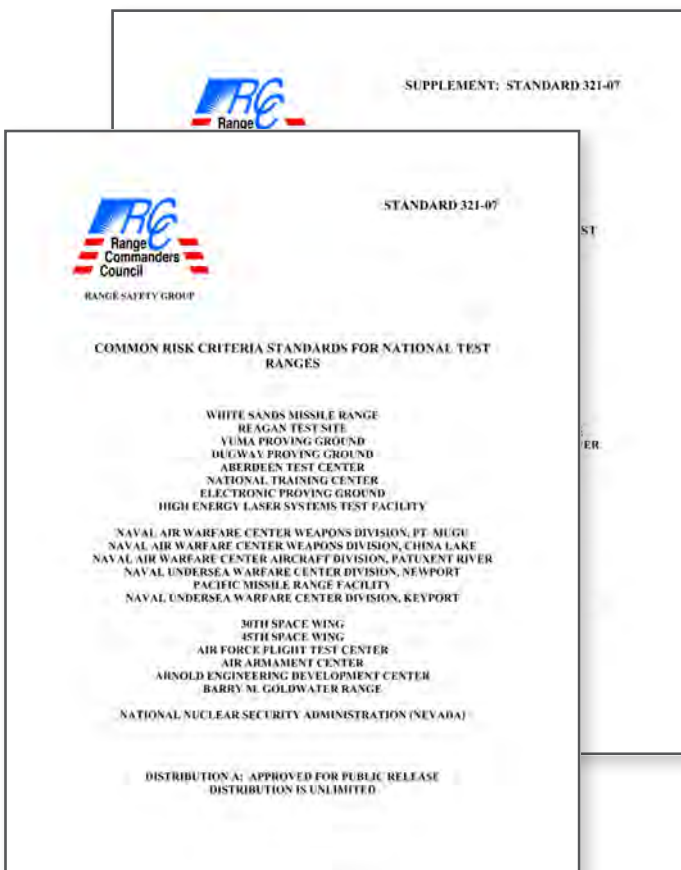
Helped develop and support application of the Safety Recommendation Release and Confirmation Policy.

NATO AC/258 - Risk Analysis Working Group

The NATO RAWG 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



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