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**AIR FORCE TECHNICAL APPLICATIONS
CENTER**

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This directive states the mission, defines the command structure, and establishes the responsibilities of the Air Force Technical Applications Center (AFTAC).

SUMMARY OF REVISIONS

This directive updates the mission and assigned duties of the Air Force Technical Applications Center (AFTAC). Changes include grammatical and wording changes throughout to improve clarity, and additional text to reflect changes to AFTAC's mission responsibilities and Office of the Secretary of Defense policy adjustments.

1. Mission. The Air Force Technical Applications Center provides national authorities quality technical measurements to monitor nuclear treaty compliance and develops advanced proliferation monitoring technologies to preserve our nation's security.

2. Command. The AFTAC Commander:

- 2.1. Is responsible to Deputy Chief of Staff, Air and Space Operations, HQ USAF/XO, for operational policies and practices.
- 2.2. Commands personnel assigned to AFTAC.
- 2.3. Provides support to the Air Staff, Department of Defense, major commands and other Federal agencies on the monitoring of international nuclear treaties.
- 2.4. Performs research and development on advanced verification technologies for counterproliferation of nuclear weapons on behalf of the Air Staff, Department of Defense and other Federal agencies.

3. Responsibilities. The Center:

- 3.1. Operates the United States Atomic Energy Detection System (USAEDS), which monitors foreign nuclear test sites for detection and positive identification of nuclear explosions and ensures compliance with existing and future nuclear test treaties.
- 3.2. Monitors compliance of signatories with terms of the Threshold Test Ban Treaty of 1974 and the Peaceful Nuclear Explosion Treaty of 1976, and any future treaties addressing the proliferation of nuclear weapons.
- 3.3. Monitors provisions of Safeguard of the Limited Nuclear Test Ban Treaty.
- 3.4. Provides information on nonnuclear activities detected by the USAEDS; such as earthquakes, subsurface high explosive detonations and various atmospheric phenomena.
- 3.5. Performs research and development of new proliferation detection technologies to enhance or assist treaty verification and limit the proliferation of all weapons of mass destruction, to include nuclear, chemical, and biological weapons.
- 3.6. Collects and correlates sensor data using advanced analysis techniques, essential to system development and real-time reporting of information to warfighters.
- 3.7. Conceives, develops, integrates and demonstrates advanced concepts and applications that address validated warfighter requirements and operational shortfalls.
- 3.8. Provides technical expertise and assistance to headquarters and other agencies, as directed, for advanced sensor technology development and acquisition.
- 3.9. Provides technical support/assistance to United States government agencies supporting international organizations responsible for the Non-Proliferation Treaty.
- 3.10. Provides technical expertise and assistance to the United States Government in evaluating technical monitoring techniques for test treaties.
- 3.11. Provides technical support and advice to the official United States Delegations involved with implementation and verification of international nuclear test treaties.
- 3.12. Provides technical support/assistance to the International Atomic Energy Agency on behalf of the United States Government.
- 3.13. Operates the United States National Data Center, the data management and analysis system for the USAEDS, to store data collected from the USAEDS sensors for analysis and modeling.

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