



**DRYDEN  
POLICY  
DIRECTIVE**

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Effective Date: Sept 16, 2005  
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**Compliance is mandatory.**

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**RESPONSIBLE OFFICE:** S / Directorate of Safety and Mission Assurance (S&MA)  
Range Safety Office (RSO)

**SUBJECT:** Range Safety Policy

## 1. POLICY

It is the policy of NASA Dryden Flight Research Center to have a Range Safety Program that protects the public and property. This policy augments and clarifies the requirements found in NPR 8715.5, Range Safety Program and NPD 8700.1B, NASA Policy for Safety and Mission Success. Noncompliance with this policy may result in project and/or program delays.

Uninhabited Aerial Vehicles (UAVs) and Experimental Aerospace Vehicles (vehicles intended to be flown in, or launched into, orbital or suborbital flight) that contain systems that cannot be accurately evaluated and confirmed for reliability of operation shall be equipped with a flight termination system. Vehicles with demonstrated high reliability may be allowed the use of a contingency mitigation system specifically tailored for that vehicle as long as the mission specific public safety requirements are met.

## 2. SCOPE AND APPLICABILITY

This DPD applies to all UAV and Experimental Aerospace Vehicle programs/projects where NASA Dryden Flight Research Center is responsible for Range Safety. It also applies to all programs/projects for which there is a planned release of an uninhabited object in flight or for which there is an accepted risk that a piece of the vehicle or test article could depart from an aircraft during flight.

## 3. AUTHORITY

- a. NPD 8700.1B, NASA Policy for Safety and Mission Success,
- b. NPR 8715.5, Range Safety Program
- c. Memorandum of Agreement (MOA) 2000-07-01-MA-A, Memorandum of Agreement (MOA) between NASA Dryden Flight Research Center (NASA DFRC) and US Air Force Flight Test Center (AFFTC) for Range Safety Alliance Operation and Implementation, dated August 02, 2004.

## 4. REFERENCES

- a. Department of Defense Directive (DoDD) 3200.11, Major Range and Test Facility Base, dated January 26, 1998.
- b. Air Force Instruction (AFI) 13-212, Space, Missile, Command and Control / Range Planning and Operations, dated August 7, 2001.

- c. Air Force Flight Test Center (AFFTC) Supplement 1 to AFI 13-212, Space, Missile, Command and Control / Range Planning and Operations, dated March 18, 2003.
- d. Air Force Flight Test Center Instruction (AFFTCI) 11-1, Flying Operations / Air Operations, dated January 14, 2004.
- e. AFFTCI 90-109, AFMC Field Activity Management Policy / AFFTC Commander's Policy for Safety, dated March 3, 2003.
- f. AFFTCI 99-5, Test and Evaluation / Test Control and Conduct, dated May 10, 2002.
- g. RCC 321-02, Common Risk Criteria for National Test Ranges, dated June 2002.
- h. RCC 323-99, Range Safety Criteria for Unmanned Air Vehicles, dated December 1999.
- i. Range Division Operating Instruction 36-3, Crew Rest Requirements for Mission Critical Personnel, dated January 27, 2003.

## 5. RESPONSIBILITY

The Center Director is responsible for ensuring compliance with this policy.

The Associate Center Director for Programs is responsible for ensuring that the Range Safety Program is implemented for all applicable programs/projects under his/her purview.

The program/project manager is responsible for:

- a. Ensuring that range safety requirements are met
- b. Providing the Range Safety Office with timely access to all test article data and analyses requested by them in order to perform their independent risk analysis
- c. Providing access to the test article for inspections of any on-board range safety equipment (e.g., Flight Termination Receivers, etc.)
- d. Keeping the Range Safety Office apprised of all equipment or procedural changes which may affect Range Safety

The Chief of the Range Safety Office is responsible for:

- a. Advising the Center Director and the Director of Safety and Mission Assurance on Range Safety matters
- b. Ensuring that an independent risk analyses is performed
- c. Recommending risk mitigation methodology
- d. Ensuring that required risk mitigation equipment on the test article is properly installed and documented
- e. Ensuring that required risk mitigation procedures are properly documented
- f. Ensuring that the operational risk mitigation actions have been implemented
- g. Ensuring that personnel are properly trained to accomplish the above tasks
- h. Ensuring that range safety ground equipment is properly maintained and operated and ensuring that reliability data is collected and evaluated.
- i. Acts as a liaison to the Air Force Flight Test Center Range Safety Office.

**6. DELEGATION OF AUTHORITY**

None.

**7. MEASUREMENTS**

None.

**8. CANCELLATION**

DPD-8740.1A, Range Safety Policy for Dryden Flight Research Center (DFRC), dated July 13, 2000.

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/S/ Kevin L. Petersen or Delegated Official

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**Document History Log**

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