



**ARMSTRONG  
FLIGHT POLICY  
DIRECTIVE (AFPD)**

**Directive:  
Effective Date:  
Expiration Date:**

**AFPD-8715.5-001A-1  
September 30, 2020  
September 30, 2025**

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**Compliance is mandatory.**

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**SUBJECT: Armstrong Range Safety Risk Criteria**

**RESPONSIBLE OFFICE: Safety and Mission Assurance (S&MA) Directorate  
Flight Research and Test Safety Branch**

**1. POLICY**

a. It is the policy of National Aeronautics and Space Administration (NASA) Armstrong Flight Research Center (AFRC) (hence forth referred to as the Center), to abide by the range safety risk criteria in NASA-Standard (STD)-8719.25, Range Flight Safety Requirements, with the following exception:

(1) Collective Public Risk Criteria for all flights other than controlled entry:  $E_c \leq 30 \times 10^{-6}$ , applied separately for each hazard.

Note: Public refers to visitors and personnel (excluding NASA workforce) inside and outside NASA-controlled locations who may be on land, on waterborne vessels, or in aircraft. Range safety implementation of the  $E_c$  criteria often includes the use of impact probability criteria, which ensure that any people on waterborne vessels or in aircraft do not contribute significantly to the overall public collective risk.

**2. APPLICABILITY**

a. This Armstrong Flight Policy Directive (AFPD) is applicable to the Center and the programs/projects to which the Center has been assigned range safety responsibility.

**3. AUTHORITY**

- a. NASA Policy Directive (NPD) 8700.1, NASA Policy for Safety and Mission Success
- b. NASA Procedural Requirement (NPR) 8715.5, Range Flight Safety Program
- c. NASA-STD-8719.25, Range Flight Safety Requirements
- d. AFPD-8700.1-001, Organizational and Individual Safety Responsibilities

**4. APPLICABLE DOCUMENTS AND FORMS**

Range Commanders Council 321, Common Risk Criteria Standards for National Test Ranges

**5. RESPONSIBILITY**

a. The Center Director has risk acceptance responsibilities defined in NPD 8700.1 and NPR 8715.5.

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- b. The Center Chief Engineer has safety approval authority for activity which is assessed to be at or below an everyday risk level.

**6. DELEGATION OF AUTHORITY**

None.

**7. MEASUREMENT/VERIFICATION**

None.

**8. CANCELLATION**

AFPD-8715.5-001 Baseline-2, Armstrong Range Safety Risk Criteria, dated September 10, 2018.

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/S/  
Glenn L. Graham  
Director for Safety & Mission Assurance

9/30/2020

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## **Attachment A, Definitions**

**Agency-level Directive.** A NASA directive with Agency-wide applicability; i.e., NASA Policy Directives (NPDs), NASA Procedural Requirements (NPRs), and NASA Interim Directives (NIDs).

**Attachment B, Acronyms**

AFRC	Armstrong Flight Research Center
NASA	National Aeronautics and Space Administration
NID	NASA Interim Directive
NPD	NASA Policy Directive
NPR	NASA Procedural Requirements
STD	Standard

### **Document History Log**

This page is for informational purposes and does not have to be retained with the document.

#### **Baseline, 08-20-15**

- New document

#### **Baseline-1, 06-27-17**

- Admin update
- Baseline changed to Baseline-1
- DPD-8715.5-001 renumbered in accordance with Center instruction.

#### **Baseline-2, 09-10-18**

- Admin updates to RESPONSIBLE OFFICE APPLICABILITY sections
- Updated directives in AUTHORITY section 3.
- Corrected previous Document History Log entry

#### **Baseline-3, 09-01-20**

- Admin update
- Document extended

#### **Revision A, 09-30-20**

- Admin updates to section 1. POLICY
- Section 4. header updated

#### **Revision A-1, Admin change, 07-07-21**

- Added Attachments A and B.