

2 DECEMBER 1997

Operations

**READINESS REVIEW OF SPACE AND
MISSILE SYSTEMS**



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This instruction implements AFD10-12, Space and AFI10-1201, Space Operations. It establishes Air Force Space Command (AFSPC) roles and responsibilities relating to the launch readiness review process. It applies to all AFSPC units involved in or supporting space launches and ballistic missile tests for which AFSPC is the launch agency or provides range support. This instruction does not apply to Air Force Reserve or National Guard units. Users should send comments and suggested improvements on an AF Form 847, Recommendation for Change Publication, through channels to HQ AFSPC/DOO, 150 Vandenberg Street, Suite 1105, Peterson AFB CO 80914-4200. Organizations at any level may supplement this instruction. Forward one copy of the supplement to HQ AFSPC/DOO.

SUMMARY OF REVISIONS

The revision of this publication is to meet the format standards required by Air Force. No content material has changed. Some required format changes have been made to allow for the conversion process.

1. General. To ensure mission success, launch timeliness and safety of operations for ballistic missile (ICBMs/SLBMs) and space launches, a formal readiness review process is the decision forum to examine readiness to proceed.

2. References:

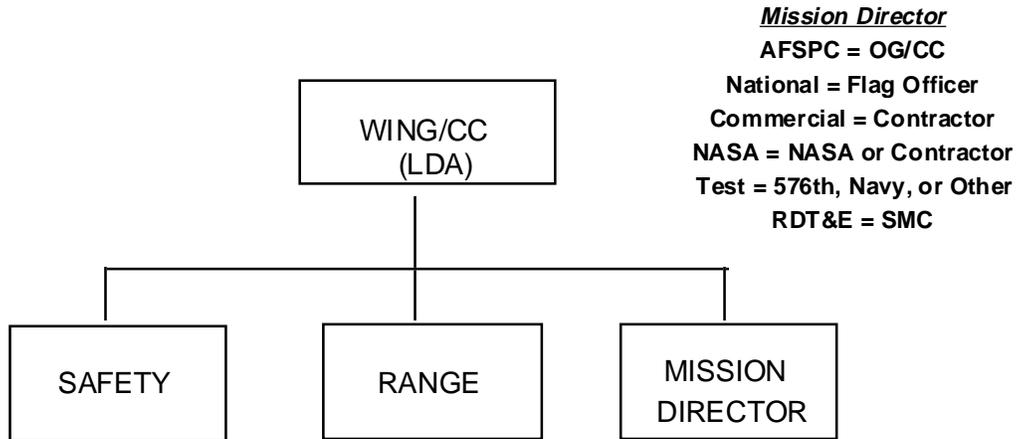
- 2.1. DODD3200.11, Major Range and Test Facility Base.
- 2.2. AFD10-12, Space.
- 2.3. AFI10-201, Space Operations.

3. Acronyms and Terms:

3.1. Independent Readiness Reviews. A review to assess the readiness status of any or all aspects of mission or launch readiness elements directed by the Commander, AFSPC.

3.2. Launch Readiness Review (LRR). The LRR is a structured review organized by the AFSPC launch wing and presented to the launch wing commander. The LRR supports the launch day decision process outlined in **Figure 1**. It provides a final pre-launch readiness assessment.

Figure 1. Launch Day Decision Process.



4. Responsibilities:

4.1. The 30 SW and 45 SW are responsible for:

4.1.1. Conducting incremental and launch readiness reviews to ensure safety compliance, the successful completion of launch processing milestones and readiness of all personnel, flight hardware, equipment and facilities to support planned operations, tests and launches. The review should include, but is not limited to, an assessment of the spacecraft/payload, launch vehicle/upper stage or ballistic missile; launch base support; weather, range and on-orbit support.

4.1.2. Participating in National Aeronautical Space Administration (NASA) Space Shuttle LRR to provide an assessment of AFSPC's readiness to support (Go/No-Go on range, weather and safety system operational status). Also, ensure compliance with DODD3200.11 responsibilities as the activity commander (wing commander).

4.1.3. Supporting incremental readiness reviews identified by the Mission Director. Participation provides an assessment of AFSPC's readiness to support planned operations, test and launches.

5. Procedures. The LRR is mandatory and must as a minimum (excluding the Space Shuttle), cover the items listed below:

5.1. Launch Personnel. Review personnel status of key launch positions to include the certification status of mission ready crew members/mission ready commanders.

5.2. Mission Description.

5.3. Schedule. Identify all major milestones leading up to the launch and the items which may affect the scheduled launch.

- 5.4. Launch Facility/Platform.** Review the status and any remaining open items or major discrepancies.
- 5.5. Launch Vehicle.** Review the status and any remaining open items or major discrepancies.
- 5.6. Upper Stage (if applicable).** Review the status and any remaining open items or major discrepancies.
- 5.7. Spacecraft/Payload.** Review the status and any remaining open items or major discrepancies.
- 5.8. Weather Support.** Review required weather support. Provide a day-of-launch forecast (and 24-hour delay forecast) to include standard weather parameters and probability of violating weather launch commit criteria (LCC) values, and as applicable: terminal area, landing site and any special weather considerations (i.e. tropical storm threats, space environmental impacts, weather equipment/communications outages, etc.)
- 5.9. Range Support.** Address range configuration and status of all supporting range assets and contingency plans or work-arounds. Identify "mandatory" and "required" range and safety instrumentation/support and waiver authority.
- 5.10. Network Support (if applicable).** Review readiness status of the Air Force Satellite Control Network (AFSCN), mission control centers and abort/recovery/contingency plans.
- 5.11. Communication Support.** Review the status of on and off base communications readiness.
- 5.12. Security Support.** Review readiness status of the security forces and applicable waivers/deviations to security requirements.
- 5.13. Safety Support.** Review safety constraints, risk assessment (toxic), and wing safety approval status.
- 5.14. Contingency Response Support.** Provide readiness status of Launch Disaster Control Group, its positioning, and key personnel. Identify, by name, the Interim Board President for the Safety Investigation Board and agency which will have mishap investigation authority
- 5.15. Countdown Summary.** Review key milestones in vehicle, spacecraft and range countdowns, and potential problem areas and hold points.
- 5.16. Open Action Items.** Address the status of all applicable open action items (previous lessons learned, Operations Review Boards, etc.) related to the affected operation.
- 5.17. Readiness.** Certification of operational readiness to proceed will be provided by the space launch squadron (SLS) commander, range squadron (RANS) commander, weather squadron (WS) commander, wing safety (flight and range), base support unit commanders and other agencies as appropriate. The launch vehicle and satellite Program Directors will certify at the LRR that all technical anomalies have been resolved and they have no problems that should be reasons to delay the launch. The SLS commander will confirm/convey there are no constraints to launch to the LDA as part of the full mission readiness assessment at the LRR.

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