

**BY ORDER OF THE COMMANDER
AIR FORCE SPACE COMMAND**

**AIR FORCE SPACE COMMAND INSPECTION
CHECKLIST 10-2**

2 MARCH 1998

Operations

SPACELIFT OPERATIONS



COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This checklist reflects Command requirements for Spacelift Operations organizations to prepare for and conduct internal reviews.

SUMMARY OF REVISIONS

This Checklist has been revised to convert AFSPCSIG90-2063 into the correct format and include items from AFSPCI10-120108.

1. References have been provided for each critical item. Critical items have been kept to a minimum and are related to public law, safety, security, fiscal responsibility, and/or mission accomplishment. While compliance with non-critical items is not rated, these items help gauge the effectiveness/efficiency of the function.
2. This publication establishes a baseline checklist. The checklist will also be used by the Command IG during applicable assessments. Use the attached checklist as a guide only. Add to or modify each area as needed, to ensure an effective and thorough review of Spacelift Operations. See [Attachment 1](#)

ROBERT C. HINSON, Brig Gen, USAF
Director of Operations

Attachment 1

SPACELIFT OPERATIONS CHECKLIST

Table A1.1. HQ AFSPC/DOO Checklists.

MISSION STATEMENT: Provides staff support for all matters related to DoD, national, civil and commercial space launch operations, space launch and range facilities, spacelift mission modeling, manifesting and scheduling. Programs, advocates and defends operations and maintenance funds for launch and range operations. Develops policy and guidance for the employment of current launch and range capabilities. <i>Note:</i> All references are from AFSPCI10-120108, unless otherwise noted.			
1. KRA 1 - POLICY AND GUIDANCE (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does the spacelift operations branch provide operations policy and guidance in the form of MAJCOM operations instructions for spacelift and review such documents as required? (Para 2.2.1.)			
2. KRA 1 - POLICY AND GUIDANCE (NON-CRITICAL ITEMS)			
2.1. Does the spacelift operations branch develop all CONOPS associated with spacelift and update as required. (Para 2.2.1.2.)			
2.2. Does the spacelift operations branch develop and publish the standard Air Force Commercial Space Operations Support Agreement with commercial, state, and other non-federal users requiring AFSPC support, for units to administer. (Para 2.2.1.3.)			
2.3. Does the spacelift operations branch provide classification guidance for all operational spacelift systems and update such documents as required? (DoDD 3500.2)			
3. KRA 2 - PROGRAM EVALUATION (NON-CRITICAL ITEMS)			
3.1. Does the spacelift operations branch participate in the AFSPC Mission Area Plan development process to develop long-range modernization planning? (Para 2.2.1.1.)			
3.2. Does the spacelift operations branch perform and provide analyses of satellite constellation capabilities to PEMs and 14 AF to support launch decisions? (Para 2.2.4.1. and 2.2.4.4.)			
4. KRA 3 - RESOURCE ALLOCATION (NON-CRITICAL ITEMS)			
4.1. Does the spacelift operations branch review and comment on proposed manpower strength and grade adjustments? (Para 2.2.2.)			

5. KRA 4 - PLANNING, PROGRAMMING AND BUDGETING (NON-CRITICAL ITEMS)	YES	NO	N/A
5.1. Does the spacelift operations branch ensure resource managers are assigned to spacelift and range program elements in the form of Program Element Monitors? (Para 2.2.3.1.)			
5.2. Does the spacelift operations branch provide PEMS with analyses of satellite constellation capabilities to support acquisition decisions? (Para 2.2.4.1.)			
5.3. Does the spacelift operations branch coordinate funding advocacy with the HQ AFSPC staff? (Para 2.2.3.2.)			
6. KRA 5 - DIRECT SUPPORT (NON-CRITICAL ITEMS)			
6.1. Does the spacelift operations branch develop and maintain the NMM, SLM, and the CLS? (Para 2.2.5.)			
6.2. Does the spacelift operations branch serve as the lead Air Force agency for managing the TSM program? (Para 2.2.6.)			

Table A1.2. NAF (14AF) Checklist.

<p>MISSION STATEMENT: Plans and executes the generation and employment of space forces to support USSPACECOM/NORAD operational plans and missions. Receives real-time requirements from USSPACECOM, and approves employment. Develops, exercises, and directs Oplan execution. Ensures combat readiness of assigned units supporting USSPACECOM war plans and Air Force/USSPACECOM policies and objectives. Supports USCINCSpace, theater Air Component Commanders, other US military forces, and applicable civilian agencies worldwide. The 14 AF controls the forces which perform the missile warning, space surveillance, satellite control, and space launch missions. <i>Note:</i> All references are from AFSPCI10-120108, unless otherwise noted.</p>			
1. NAF (14AF) (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does 14 AF maintain OPCON of forces and issue execute orders in support of COCOM systems? (Para 3.1.1.)			
1.2. Does 14 AF develop OCs to support USCINCSpace requests? (Para 3.1.3.)			
1.3. Does 14 AF develop OPORDs and OPLANs annexes and checklists? (Para 3.1.4.)			
1.4. Does 14 AF develop standardized policy and guidance governing the review and approval processes associated with operational and training documentation? (Para 3.1.7.)			
2. NAF (14AF) (NON-CRITICAL ITEMS)	YES	NO	N/A
2.1. Does 14 AF review and approve Spacelift Operations COEs and Range COEs? (Para 3.1.2.)			
2.2. Does 14 AF perform Staff Assistance Visits at the spacelift wings request? (Para 3.1.6.)			

Table A1.3. Wing Commanders (30th and 45th SWs) Checklist.

MISSION STATEMENT: Provides mission-ready forces for the Fourteenth Air Force and the United States Space Command (USSPACECOM) to safely execute and maintain spacelift operations and operate, maintain, and secure the Western/Eastern Range. Supports ballistic missile test launches, aircraft tests, and other ballistic munitions evaluations. Supports civil spacelift operations. Supports commercial spacelift operations licensed by the Department of Transportation and other space launch activities in accordance with the National Space Policy and within the provisions of public law. Note: All references are from AFSPCI10-120108, unless otherwise noted.			
1. WING COMMANDERS (30TH AND 45TH SW) (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does the wing commander ensure all mission ready operators and the associated training and evaluation programs meet the requirements specified in AFSPCI10-120102? (AFSPCI 120108, para 4.1.4.)			
1.2. Does the Wing Commander ensure safety is consistent with operational requirements to include the protection of resources and the public? (AFSPCI10-120108, para 4.1.2. and DoDD 3200.11, para D.3.i.)			
1.3. Does the wing commander perform as the LDA or designate a MR representative for all launch operations? (Para 4.1.6.)			
2. WING COMMANDERS (30th and 45th SW) (NON-CRITICAL ITEMS)			
2.1. Does the wing commander implement a wing-wide integrated training program, exercising launch team cohesiveness? (Para 4.1.3.)			
2.2. Does the wing commander ensure the NMCC is notified if a launch accident or errant trajectory occurs. (Para 4.1.5.)			

Table A1.4. Wing Safety (30th and 45th SE) Checklist.

MISSION STATEMENT: Develops, manages, and directs the Range Safety and Ground, Weapons, and Flight Safety programs. Develops and implements policy for launch safety and resource protection associated with launch operations. <i>Note:</i> All references are from AFSPCI10-120108, unless otherwise noted.			
1. WING SAFETY (30TH AND 45TH SW) (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does wing safety develop and implement required programs, practices, and procedures to reduce the risk to mission accomplishment, resources, and the public? (AFSPCI10-120108, para 4.2.1. and DoDD 3200.11, para D.3.i.)			
1.2. Does wing safety provide launch safety requirements for operational procedures? (Para 4.2.4.)			
1.3. Does the MFCO provide the final range safety Go/No-Go for launch recommendation to the wing commander in compliance with flight rules? (Para 4.3.1.)			
1.4. Does the MFCO serve as the sole authority for determining if the flight of a launch vehicle should be allowed to continue or terminated based on actual flight data and mission rules? (Para 4.3.4.)			
1.5. Does the MFCO initiate flight termination action when flight data violates destruct criteria or mission rules? (Para 4.3.5.)			
1.6. Does the MFCO coordinate real-time safety waiver requests with the LDA as necessary? (Para 4.3.6.)			
2. WING SAFETY (30TH AND 45TH SW) (NON-CRITICAL ITEMS)			
2.1. Does wing safety develop standardized safety requirements? (Para 4.2.5.)			
2.2. Does wing safety establish operational safety criteria and display, tracking, and data processing parameters? (Para 4.2.8.)			
2.3. Does wing safety provide analyses of flight safety safety criteria and display, tracking, and data processing parameters? (Para 4.2.9.)			
2.4. Does wing safety review and approve all unit operations and training documentation? (Para 4.2.12.)			
2.5. Does the MFCO develop procedures for equipment and vehicle failure/discrepancy/problem resolution? (Para 4.3.2.)			
2.6. Does the MFCO develop mission flight rules consistent with range safety requirements and operational needs? (Para 4.3.3.)			

Table A1.5. OPERATIONS GROUPS (30th and 45th SW) Checklist.

MISSION STATEMENT: Provides mission-ready forces for the Fourteenth Air Force and the United States Space Command (USSPACECOM) to safely execute and maintain spacelift operations and operate, maintain, and secure the Western/Eastern Range. Supports ballistic missile test launches, aircraft tests, and other ballistic munitions evaluations. Supports civil spacelift operations. Supports commercial spacelift operations licensed by the Department of Transportation and other space launch activities in accordance with the National Space Policy and within the provisions of public law. <i>Note:</i> All references are from AFSPCI10-120108, unless otherwise noted.			
1. OPERATIONS GROUPS (30TH AND 45TH SW) (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does the OG/CC perform as the MD for AFSPC missions? (Para 5.1.1.)			
1.2. Does the OGV evaluate mission ready crew members? (Para 5.2.5.)			
2. OPERATIONS GROUPS (30TH AND 45TH SW) (NON-CRITICAL ITEMS)			
2.1. Does the OG/CC review the mission readiness assessment at the LRR and advise the LDA on decision to enter or proceed with launch count-down? (Para 5.1.1.2.)			
2.2. Does the OGV develop and standardize the format, types and procedures for all wing developed Emergency Action checklists for all MR positions? (Para 5.2.1.)			
2.3. Does the OGV comply with and validate all wing MR programs as defined in AFSPCI136-2202 and AFSPCI 10-120102? (Para 5.2.4.)			
2.4. Does the OGV conduct annual staff assistance visits? (Para 5.2.5.)			
2.5. Does the OGV standardize operations policies and procedures? (Para 5.2.7.)			
2.6. Does the OSS/CC certify as an Interim Safety Investigation Board president? (Para 6.1.2.)			
2.7. Does the OSS/CC ensure OSOT 13SX and 1C6XX personnel are instructor and MR certified? (Para 6.1.3.)			
2.8. Does the OSOT meet training program responsibilities as defined in AFSPCI36-2202, AFSPCI10-120102, and AFSPCI 21-10801? (Para 6.2.1.)			
2.9. Does the OSOT standardize all MR and space launch maintenance training? (Para 6.2.2.)			
2.10. Does the OSOT manage the Mission Ready program for Commanders? (Para 6.2.4.)			
2.11. Does the OSOT develop and conduct an instructor training program? (Para 6.2.5.)			

Table A1.6. Unit (Space Launch Squadron) Checklist.

MISSION STATEMENT: The SLSs operate space launch facilities in support of critical space programs. Processes flight hardware and launches satellites to support national and warfighting CINC requirements. Directs the activities of military, civilian, and contractor personnel to assure access to space. Manages space launch facilities. Note: All references are from AFSPCI10-120108, unless otherwise noted.			
1. UNIT (SPACE LAUNCH SQUADRON) (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does the LD verify and comply with Go/No-Go decision criteria for all booster, satellite, and facility systems supporting launch? (Para 7.4.3.)			
1.2. Does the LCC verify and comply with Go/No-Go decision criteria for all booster, satellite, and facility systems supporting launch in conjunction with the LD? (Para 7.5.5.)			
1.3. Does the LCC execute launch countdown activities? (Para 7.5.7.)			
2. UNIT (SPACE LAUNCH SQUADRON) (NON-CRITICAL ITEMS)	YES	NO	N/A
2.1. Does the SLS/CC certify as an Interim Safety Investigation Board President? (Para 7.1.2.)			
2.2. Does the SLS/CC develop procedures for failure/discrepancies/anomaly resolution? (Para 7.1.3.)			
2.3. Does the SLS/CC serve as an advocate for maintenance and logistics standardization initiatives? (AFSPCI10-120108,para 7.1.5. and AFSPCI21-10801, para 2.4.1.)			
2.4. Does the Operations Officer provide fully trained and certified operations personnel for all missions? (Para 7.2.1.)			
2.5. Does the Operations Officer review and approve all unit operations and training documentation? (Para 7.2.2.)			
2.6. Does the Operations Officer review and approve all launch vehicle/facility/spacecraft operations schedules/plans? (Para 7.2.3.)			
2.7. Does the Operations Officer review and approve launch vehicle/spacecraft countdown procedures (unit and contractor) that include actual launch? (Para 7.2.4.)			
2.8. Does the Maintenance Supervisor manage and supervise the maintenance functions and resources of the squadron IAW AFSPCI21-10801? (Para 7.3.1.)			
2.9. Does the LD evaluate launch systems modifications/upgrades to assess impacts to operations/procedures and notify MD and LDA of potential impacts? (Para 7.4.1.)			
2.10. Does the LCC ensure all resources are available and ready when needed to support launch operations? (Para 7.5.2.)			

2.11. Does the LCC establish requirement and/or review and approve launch vehicle/spacecraft countdown procedures and integrated processing schedules? (Para 7.5.3.)			
2.12. Does the LCC evaluate launch systems modifications/upgrades to assess impact on operations/procedures and notify the LD of potential impacts to critical path operations or projected launch date? (Para 7.5.4.)			
2.13. Does the LCC maintain responsibility for safety, security and resource management of spacecraft, booster and facilities during operational tasks? (Para 7.5.6.)			
2.14. Does the Operations Support Flight oversee and integrate launch agency requirements into the UDS documentation? (Para 7.6.2.)			
2.15. Does the Operations Support Flight develop and maintain squadron procedures? (Para 7.6.3.)			
2.16. Does the Launch Operations Flight manage the crew force IAW AFSPCI10-120102? (Para 7.7.1.)			
2.17. Does the Launch Operations Flight manage the DNIF program IAW AFSPCI10-120102? (Para 7.7.2.)			

Table A1.7. Unit (Range Squadron) Checklist.

MISSION STATEMENT: The mission of the RANS is to perform realtime command and control of Range air, sea, and ground based sensors and associated assets in support of all DoD, NASA, and commercial space and ballistic launches. Prepare and deconflict all operations and launch schedule in conjunction with other national ranges and space control networks. Provide program execution support for customer and safety objectives and integrate those requirements with range capabilities. Direct the activities of Air Force and contractor personnel for the national range. Note: All references are from AFSPCI10-120108, unless otherwise noted.			
1. UNIT (RANGE SQUADRON) (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does the RCO or ROC manage, direct and control range assets to ensure all range instrumentation is capable and ready to support launch operations? (Para 8.5.1.)			
1.2. Does the RCO or ROC provide the final overall “range-clear-to-launch” as authorized by the LDA? (Para 8.5.4.)			
1.3. Does the ACO direct area clearance activities to ensure Flight Hazard Area and restricted airspace are clear of unauthorized encroachments? (Para 8.6.3.)			
1.4. Does the ACO report activity status and recommend Go/No-Go to the MFCO and ROC as appropriate? (Para 8.6.4.)			
2. UNIT (RANGE SQUADRON) (NON-CRITICAL ITEMS)			
2.1. Does the RANS/CC certify as an Interim Safety Investigation Board President? (Para 8.1.2.)			
2.2. Does the RANS/CC develop procedures for failure/discrepancies/anomaly resolution? (Para 8.1.3.)			
2.3. Does the RANS/CC review, approve and/or coordinate launch vehicle/facility/spacecraft operations schedules/plans as appropriate? (Para 8.1.4.)			
2.4. Does the Operations Officer provide fully trained and certified operations personnel for all missions? (Para 8.2.1.)			
2.5. Does the Operations Officer review and approve all unit operations and training documentation? (Para 8.2.2.)			
2.6. Does the Operations Officer review and approve Range countdown procedures (unit and contractor) that include actual launch? (Para 8.2.3.)			
2.7. Does the Operations Officer review and approve integrated launch vehicle/spacecraft countdown procedures (unit and contractor) that include actual launch (as applicable)? (Para 8.2.4.)			
2.8. Does the Operations Support Flight maintain and integrate launch schedules? (Para 8.3.2.)			
2.9. Does the Operations Support Flight develop and maintain squadron procedures? (Para 8.3.3.)			
2.10. Does the Range Operations Flight manage the crew force IAW AFSPCI10-120102? (Para 8.4.1.)			

2.11. Does the Range Operations Flight manage the DNIF program IAW AFSPCI10-120102? (Para 8.4.2.)			
2.12. Does the RCO or ROC certify range readiness IAW AFSPCI10-120111? (Para 8.5.3.)			
2.13. Does the RCO or ROC direct all range systems interfaces with user systems and coordinate with range system controllers to ensure mission capable support during range operations? (Para 8.5.6.)			
2.14. Does the RCO or ROC integrate global tracking sites into a single tracking network under centralized control? (Para 8.5.7.)			
2.15. Does the RCO or ROC coordinate contingency forces to include Search and Rescue/MEDIVAC helicopters and crews, medical support teams and DoD EOD teams as required? (Para 8.5.8.)			
2.16. Does the ACO direct all aircraft operations conducted on the range? (Para 8.6.1.)			
2.17. Does the ACO direct all range and inter-range support during dedicated aeronautical operations? (Para 8.6.2.)			
2.18. Does the ACO ensure air controllers comply with DoD, Air Force and Federal Aviation Administration rules and procedures as applicable? (Para 8.6.5.)			

Table A1.8. Unit (Weather Squadron) Checklist.

MISSION STATEMENT: The WS provides highly mission-tailored weather observations, forecasts, evaluate day of launch weather launch commit criteria and staff weather services to all range expendable, manned (ER), and ballistic launch operations. Assists in acquiring spacelift/range unique weather sensors, instrumentation, and data processing equipment. Note: All references are from AFSPCI10-120108, unless otherwise noted.			
1. UNIT (WEATHER SQUADRON) (CRITICAL ITEMS)	YES	NO	N/A
1.1. Does the LWO observe, forecast and evaluate weather with respect to commit criteria, report status, and make launch recommendation? (Para 9.2.3.)			
2. UNIT (WEATHER SQUADRON) (NON-CRITICAL ITEMS)			
2.1. Does the Weather Squadron Commander provide certified LWOs, LWT members and Range Weather Forecasters to fully support Range operations/missions? (Para 9.1.1.)			
2.2. Does the Weather Squadron Commander act as the senior LWT member? (Para 9.1.3.)			
2.3. Does the LWO provide or arrange for tailored weather services to fully support all phases of launch operations? (Para 9.2.1.)			
2.4. Does the LWO serve as the weather single point of contact between LWT and Launch Director/Range launch team? (Para 9.2.2.)			
2.5. Does the LWO serve as a LWT member? (Para 9.2.4.)			