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OF THE AIR FORCE**



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B-52 OPERATIONS PROCEDURES

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This volume implements Air Force Policy Directive (AFPD) 11-2, *Aircraft Rules and Procedures*; AFPD 11-4, *Aviation Service*; and Air Force Instruction (AFI) 11-202 Volume 3, *General Flight Rules*. This publication applies to Regular Air Force and Air Force Reserve military and civilian personnel. This publication does not apply to the Air National Guard. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate functional chain of command. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“T-0, T-1, T-2, T-3”) number following the compliance statement (See [paragraph 1.3](#)). See AFI 33-360, *Publications and Forms Management*, for a description of the authorities associated with the Tier

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SUMMARY OF CHANGES

This volume has changed substantially from the previous edition and must be reviewed in its entirety. It has been simplified and shortened, in part by eliminating detailed discussions of flying procedures and techniques that are included in B-52 techniques, tactics and procedures. Guidance has also been changed to allow greater flexibility, by eliminating unnecessary detail and lowering waiver levels, and generally to reflect an operational risk management (ORM) mindset.

(BARKSDALEAFB) This supplement has been revised and must be completely reviewed. Major changes include additions and deletions to previous supplement. Additions include increased hard-copy publication requirements for flight, starting procedure changes, and post-flight inspection requirements. Deletions include guidance for Personal Electronic Devices (PED) and EMCON procedures due to published Higher Headquarters guidance. **Removed oil temperature limitation before turning on generators and requirement to carry a hard copy Communications checklist.**

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Chapter 1

OVERVIEW

1.1. Aircrew Responsibility. This regulation prescribes procedures for operating the B-52 aircraft under most circumstances. It should be followed in conjunction with AFI 11-202, Volume 3. Never compromise sound judgement, safety or common sense to obey the processes and procedures found in this manual. Other operating procedures not specifically addressed herein, may be used when they enhance safe, effective mission accomplishment.

1.2. Deviations. Deviations from these procedures require specific approval by the MAJCOM/A3 or tiered waiver authority unless an urgent requirement or an aircraft emergency dictates otherwise, in which case the pilot in command will take the appropriate action to accomplish the mission and safely recover the aircraft. (T-3).

1.3. Waivers. Forward T-0, T-1 and T-2 waiver requests to the AFGSC, Director of Operations (AFGSC/A3) or AFRC/A3D for approval. Waivers are valid for one year from the approval date. In accordance with (IAW) AFI 33-360, T-3 waiver authority may be delegated to group or squadron commanders. Information copies will be provided IAW AFRC procedures.

1.3.1. **(Added-BARKSDALEAFB)** Waivers to this Supplement. Waivers to this supplement will be requested through the applicable Operations Group Standardization and Evaluation (OG/OGV) shop for OG/CC approval.

1.4. After Action Reports. Squadron commanders are responsible for submitting After Action Reports to Air Force Global Strike Command, Lessons Learned (AFGSC/A9L) within 45 days of returning from any deployment. (T-2).

Chapter 2

MISSION PLANNING

2.1. Mission Planning Requirements. All missions must be planned in sufficient detail to ensure safe, effective employment and compliance. Flying crews must fully review all aspects of the mission to ensure they can meet objectives and make sound decisions balancing mission accomplishment and safety. (T-3). Mission planning takes priority over other non-flying duties.

2.1.1. For self-planned sorties, (i.e. mission plan/fly) all crewmembers must be present for mission planning unless excused by the Squadron Operations Officer. (T-3). Crews must have access to mission planning areas as in [paragraph 2.1.2](#) (T-3). Provide sufficient time to plan and prepare for the sortie.

2.1.2. All crewmembers will attend the Pre-Takeoff Brief (PTOB). Flying crews will be given adequate time to review all information pertinent to the mission, to include any time and facilities needed to adjust, print or complete any off-the-shelf products or paperwork. Any substitutions after the PTOB and mission planning day, require approval by the Squadron Operations Officer. (T-3).

2.1.3. Target Study. Target study will be led by a qualified single or multi-ship mission lead, and accomplished as an integral crew or formation for all live and inert weapons activity. (T-3). Brief targets, ingress and egress, threats and tactics, contingencies, and current information on the airspace, range(s), and areas of responsibility along with the associated procedures, SPINS, etc. Reference and brief applicable items from AFI 11-214, *Air Operations Rules and Procedures* and B- 52 TTPs.

2.2. Roles and Responsibilities. The mission lead and aircraft commander (AC) should validate the tactical plan, weapons employment and crew preparation. A qualified mission lead will be designated for every sortie with actual weapons. (T-3). Sorties with simulated weapons should include a mission lead; if none is available, the AC or senior instructor fills the role. The mission lead is responsible for successful tactical employment, to include planning and debrief. The AC is responsible for mission data, crewmember qualifications and currencies.

2.3. Required publications.

2.3.1. Technical Orders. Each crewmember will have and refer to appropriate flight manual checklists during ground and flight operations to ensure accomplishment of prescribed actions. (T-2). Crews will have access in flight to complete aircraft/weapons/systems technical orders applicable to the mission. (T-2). Flight surgeons and flying crew chiefs not issued flight manuals are responsible for maintaining adequate knowledge of emergency procedures. (T-3).

2.3.2. Required Directives. Carry AFI 11-202 Vol 3 (and any applicable supplements), this manual and local flying directives on electronic flight bags (EFB) in flight. Units will set a baseline of publications for the EFB. (T-3).

2.3.3. Units will develop local aircrew aids (e.g. in-flight guide), to include:

2.3.3.1. Weight and balance data for calculating local aircraft configurations. (T-3).

2.3.3.2. Local radio channelization and airfield diagrams. (T-3).

2.3.3.3. Impoundment and radio-out procedures. (T-3).

2.3.3.4. Recovery procedures with weapons, local jettison, bailout areas and hot brake areas and procedures. (T-3).

2.3.3.5. Divert, alternate and emergency airfield/runway data, coordinates, approximate course and distance, estimated time enroute (ETE), altitude, and fuel required. (T-3).

2.4. Mission Planning Standards.

2.4.1. Takeoff computations. A minimum of 1,000 feet overrun must be available in addition to the minimum runway required (MRR). (T-3). When 1,000 feet of overrun is not available, reserve a portion of the runway to satisfy the minimum overrun requirements. Runway available for takeoff planning must be actual runway length minus any portion of the runway used to satisfy overrun requirements at the liftoff end of the runway. (T-3).

2.4.2. Normal peacetime performance criteria and the provisions of [paragraph 2.4.1](#) apply to conventional operations and must be observed in the interest of safety and economy. (T-3). At no time will launch be directed when computed takeoff distance exceeds 95 percent of runway available. (T-2).

2.4.3. High Altitude Charts. Each sortie will have at least one printed chart covering 50 nautical miles (NM) on either side of the planned flight in an appropriate scale. (T-3). Electronic charts may be used outside of that area and for divert coverage. Use chart symbology IAW Air Force Pamphlet (AFPAM) 11-216, *Air Navigation*, and Air Force Global Strike Command Instruction (AFGSCI) 13-520-S, Volume 2, *Bomber Nuclear Mission Preparation*, as a guide.

2.4.4. Low Altitude Charts. On low altitude training flights, one pilot, one Weapon Systems Officer (WSO) and the Electronic Warfare Officer (EWO) will carry a chart. (T-3). The chart will be of such scale and quality that depictions of terrain features, hazards, noise sensitive areas, and chart annotations allow individual navigation and safe mission accomplishment. (T-3).

2.4.4.1. Annotate noise sensitive areas, location and dimensions of class B/C/D airspace, civil and military airfields, and other potential high-density traffic areas (e.g., parachute activity areas and ultra-light, hang glider, glider sites, etc.) within 5 nautical miles (NM) of any planned VFR route or airspace boundary. (T-3).

2.4.4.2. Applicable airfield approach control frequencies in the vicinity of class B, C, and D airspace will be annotated and briefed on all such flights. (T-3). In addition, annotate and brief the intersection of crossing Instrument Flight Rules (IFR) Military Training Routes or Visual Flight Rules (VFR) Military Training Routes (if applicable) and any other possible areas of conflict. Review pilot's and WSO's charts for compatibility and accuracy. (T-3).

2.4.4.3. When manually creating low-level charts, update charts from the Chart Update Manual (CHUM) and annotate all noise sensitive areas along the route of flight. If using up-to-date flight planning software, ensure current Digital Aeronautical Flight Information File (DAFIF) and CHUM. (T-3).

2.4.5. Fuel Conservation. Unit leadership and aircrew will manage aviation fuel as a limited commodity. (T-3). Fuel efficiency will be considered throughout mission planning and execution. Unit leadership and aircrew will design flight plans and routing for optimal fuel use. (T-3).

2.4.6. Flight Plans. The AC's signature on the DD Form 1801, *International Flight Plan*, or submission of an electronic flight plan indicates all the items in the briefing guides were briefed or accomplished. Units filing electronically must designate alternative procedures in their local AFMAN 11-2B-52 Vol 3, **Chapter 8**, for documenting briefing requirements. (T-3).

Chapter 3

NORMAL OPERATING PROCEDURES

3.1. General.

3.1.1. Restrictions in this and subsequent chapters do not apply to weapons system trainer (WST) or aviation training device (ATD) employment; however, crews should limit non-approved maneuvers to specific learning objectives.

3.1.2. Alert crews/sorties that remain within UHF contact of local command post are exempt from Emergency Action Message HF monitoring requirements.

3.1.3. Augmented aircrew for long duration sorties will include at least three pilots and three WSOs, with at least one dual-seat qualified pilot. (T-2).

3.1.4. Basic Area Navigation (BRNAV) procedures and information.

3.1.4.1. BRNAV Airspace. Airspace where BRNAV is applied is considered special qualification airspace. Both the operator and the specific aircraft type must be approved for operations in these areas. BRNAV navigation accuracy criteria is RNP-5. (T-0). The B-52 complies with RNP-5 accuracy, integrity, and continuity and is approved for BRNAV operations requiring RNP-5 or higher criteria. Aircrew must update position as required to maintain actual centerline within +/- 5 NM of Air Traffic Control (ATC) cleared route. (T-0).

3.1.4.1.1. Minimum equipment to operate in BRNAV airspace is one INU capable of updates from Doppler and/or Radar inputs (i.e., not tied to aircraft GPS). Flights entering BRNAV airspace after long over water flight must be especially aware of BRNAV tolerances and update accordingly. Note: The B-52 GPS receiver is not certified for BRNAV operations. (T-0).

3.1.4.1.2. Minimum aircrew for BRNAV operations is a pilot team and a WSO in the Radar Navigator (RN) seat of the offense compartment.

3.1.4.1.3. Aircraft must turn short of filed points to remain within +/- 5 NM of ATC cleared route. (T-0). Aircrew should utilize the "Turn Short" feature when preparing mission data cartridges and during inflight operations.

3.1.4.1.4. Aircraft unable to maintain BRNAV tolerances must advise ATC immediately and take appropriate coordinated action. (T-0).

3.1.4.1.5. Document (in the aircraft forms) malfunctions or failures of BRNAV required equipment, including the failure of any equipment to meet BRNAV tolerances. (T-1).

3.2. Air Refueling. Air-to-air refueling operations are authorized on an IFR flight plan and along published or special tracks and anchors. In addition, under certain circumstances, enroute refueling may be conducted between aircraft comprising a formation. During these operations, it is the primary responsibility of the tanker aircrew to remain within the protected lateral, longitudinal, and vertical airspace. For the dimensions of protected airspace and other conditions/procedures affecting air-refueling operations, refer to Federal Aviation Administration Handbook (FAAH) JO 7610.4U, *Special Operations*. Military Assumes Responsibility for Separation of Aircraft (MARSA, US only).

3.2.1. MARSA between the tanker(s) and the receiver(s) begins when the lead tanker advises Air Route Traffic Control Center (ARTCC) they accept MARSA.

3.2.2. After MARSA has been declared, controller assigned course or altitude changes prior to rendezvous completion will automatically void MARSA. Once rendezvous is completed, headings and altitude assignments may be made with tanker concurrence and MARSA can remain in effect.

3.2.2.1. After rendezvous, the receiver(s) will remain within 3 miles of the tanker(s) until MARSA is terminated. (T-0).

3.2.3. Air Refueling Limitations and Restrictions:

3.2.3.1. Training in air refueling procedures, excluding rendezvous, is prohibited when the receiver aircraft is loaded with nuclear weapons. (T-0).

3.2.3.2. Coordinate emission control (EMCON) 2/3/4 procedures before flight. (T-2). Do not attempt EMCON 3/4 rendezvous unless at least 1,000 feet vertical separation is assured between tanker and receiver (i.e., the receiver is 1,000 feet or more below the base altitude and the tanker is at or above it). (T-2). Do not close within 1,000 feet vertically of the tanker unless reliable radio communications are established except for EMCON 3/4 procedures, critical fuel shortage, or as directed in tasking orders/SPINS/etc. (T-2).

3.2.3.3. Do not accomplish air refueling during training missions when any of the conditions below exist. (T-2). For operational missions, the decision to attempt refueling will be based on any applicable guidance in tasking orders/SPINS/etc. and ORM. (T-2).

3.2.3.3.1. When encountering turbulence which, in the opinion of the pilot or boom operator, denies a safe margin of control of either aircraft or boom. (T-2).

3.2.3.3.2. When two or more engines are shut down or when any engine has been shut down due to fire or fire indication. (T-2).

3.2.3.3.3. When the tanker has less than all engines operating. (T-2).

3.2.3.3.4. When any flight control problems are suspected or encountered which, in the opinion of the receiver pilot, would deny a safe margin of control. (T-2).

3.2.3.3.5. When tanker aircraft is unable to retract landing gear. (T-2).

3.2.3.3.6. When the aircraft gross weight is less than 230,000 pounds or more than the maximum limits specified in the appropriate flight manual. (T-2).

3.2.3.4. Do not conduct air refueling after known losses of tanker disconnect capability (including tanker manual operation without tanker disconnect capability or manual boom latching) except as authorized below. When refueling under these conditions, limit contact time and number of contacts to that necessary to complete mission requirements. (T-2).

3.2.3.4.1. During an emergency fuel situation. (T-2).

3.2.3.4.2. During the following missions: operational nuclear or conventional, operational readiness inspection (ORI), higher headquarters directed (HHD), emergency evacuation, deployment, and redeployment. (T-2).

3.2.4. Reverse air refueling and manual boom latching training must be under instructor pilot (IP) supervision. Brief procedures used between receiver pilots and boom operators during mission planning. Inflight coordination between receiver pilot and boom operator must include briefing items required by applicable air refueling technical orders. Both tanker and receiver air refueling system must be fully operable. (T-2).

3.2.5. Do not accomplish breakaway training from the contact position unless:

3.2.5.1. The receiver signal system is in normal. (T-2).

3.2.5.2. The receiver and tanker have assured normal disconnect capability prior to initiating maneuver. (T-2).

3.2.5.3. For breakaway training, the tanker pilot and boom operator and the receiver pilot will coordinate the maneuver prior to inflight accomplishment. (T-2). Inflight coordination must include when the maneuver will occur and who will give the command of execution. (T-2).

3.2.6. For boom envelope demonstrations, the receiver pilot and the boom operator will confirm normal disconnect capability. (T-3). Inflight coordination must include the receiver pilot informing the boom operator when commencing the demonstration, the limit demonstrated, and when terminating the demonstration. (T-3).

3.3. Low Altitude (LOWAT) Operations. The low altitude environment is defined as 5,000 feet AGL/ASL and below. Departure, transition, or short periods cruising between 2,000 and 5,000 feet AGL/ASL are not considered low altitude and do not require LOWAT currency. Conduct LOWAT in military designated employment areas as defined in [Attachment 2](#). (T-2). Note: [Attachment 3](#) contains additional guidance specifically for flying defined low-level routes.

3.3.1. Restrictions.

3.3.1.1. Crews will not fly lower than 1,000 feet AGL/ASL. (T-2). Set safe clearance altitudes (SCAs) no lower than 1,000 feet (2,000 feet in mountainous terrain) above the highest terrain/obstacle within 4 NM of the planned route. (T-2). In employment areas, establish (a) sector altitude(s) ensuring 1,000/2,000 feet clearance above the highest terrain/obstacles within 4 NM of the sector. (T-2).

3.3.1.1.1. If crews are able to visually acquire and avoid obstacles, they may fly at 1,000/2,000 feet above the highest terrain within 4 NM. If the obstacle(s) are not spotted by 4 NM, crews will climb to 1,000/2,000 feet above the obstacle(s). (T-2).

- 3.3.1.1.2. Exception: Qualified aircrew may conduct low altitude training at TA altitudes consistent with unit requirements and IAW guidance in this manual and other current directives.
- 3.3.1.2. Low altitude weight restriction is 230,000 to 420,000 pounds. (T-3).
- 3.3.1.3. Aircrews will not use the autopilot non-steering modes other than second station for low-altitude operations. (T-3).
- 3.3.1.4. Bank angles during low-level or operations below 1,000 feet AGL/ASL are limited to 30 degrees maximum. (T-2). Use steep turn guidance as applicable for higher altitudes. (T-2).
- 3.3.1.5. Do not descend below 5,000 AGL when bird status is moderate or higher without operations group commander approval. (T-3). Determine bird status by best available means, to include Bird Avoidance Model (BAM) or other predictive data combined with crew observation if actual bird reporting is not available in the area. (T-3).
- 3.3.2. Weather restrictions.
- 3.3.2.1. Icing. Do not conduct low altitude flights in areas of forecast severe icing conditions or areas of reported moderate or severe icing conditions. (T-3). If moderate or severe icing is encountered, abort the mission employment area. (T-3).
- 3.3.2.2. Turbulence. Do not conduct low altitude flight in areas of forecast severe turbulence, forecast moderate or severe turbulence in mountain wave effect, or moderate or severe turbulence reported by military aircraft. (T-2).
- 3.3.2.3. Wind Restrictions. B-52 flight at SCA is prohibited in mountainous areas when winds at or below MSA/IFR altitude are 40 knots or greater. (T-3).
- 3.3.3. Equipment Restrictions. If equipment problems impair the crew's ability to clear terrain do not attempt low-level flight. (T-2).
- 3.3.3.1. Flight Controls. Abort low-level if any flight control system malfunction denies the pilot a safe margin of control over the aircraft. (T-2).
- 3.3.3.2. Mapping Radar Failure (Scope Blank or Inadequate for Navigation). Do not fly low-level during IMC or night with mapping radar failure. (T-2). Aircraft without mapping radar may descend to the safe clearance altitude in day visual conditions only.
- 3.3.3.3. Offensive Avionics System (OAS) Processors. Do not fly low-level with less than one processor during IMC or night. (T-3). Crews may penetrate to low-level with less than one processor in day VMC.
- 3.3.3.4. Multi-Function Displays (MFDs). Do not fly low-level unless there is at least one operable MFD at the RN station and one at the navigator's station. (T-3).
- 3.3.3.5. Attitude Heading Reference System (AHRS). Do not fly low-level with a malfunctioning AHRS. (T-3). Exception: The AHRS does not need to be fully operational if one Inertial Navigation Unit (INU) is providing accurate heading and there is accurate MD-1 gyro stabilization for the pilot's attitude director indicator (ADI) (this exception applies only for day, VMC low altitude training). (T-3).

3.3.3.6. Radar Altimeter. Safe clearance altitude flight without a properly operating radar altimeter is prohibited. (T-2).

3.3.3.7. Do not practice radar silent operations in IMC or at night. (T-3).

3.4. Night-Vision Goggles (NVG) Procedures. NVGs enhance the ability to fly low-level, and may be used for a variety of tactical reasons. Crews may fly at SCA using NVGs to enhance situational awareness. Do not use NVGs for air refueling (within 3 NM of the tanker) or pattern operations. (T-3).

3.4.1. The AC will ensure sufficient operable sets are aboard the aircraft. (T-3). Each crewmember whose duties require using NVGs will be current and qualified with the NVG, unless accompanied by a current and qualified instructor. (T-3).

3.4.2. If any doubt exists concerning terrain clearance or visibility during low-level, immediately climb to a MSA/IFR. (T-3).

3.5. Formation. B-52s may employ as a formation in any phase of flight except when accomplishing instrument approaches. When in formation, aircraft/crews should operate as a unit; flight lead is responsible for safe conduct of the formation. See Air Force Tactics, Techniques and Procedures (AFTTP) 3-3.B-52 for guidance on formation flight.

3.5.1. Definitions:

3.5.1.1. Formation Flight. Formation flight by FAA definition is more than one aircraft which, by prior arrangement between the aircrews, operate as a single aircraft with regard to navigation and position reporting. Separation between aircraft within the formation is the responsibility of the flight leader and the crewmembers of other aircraft in the flight. This includes transitional periods when aircraft within the formation are maneuvering to attain separation from each other to effect individual control and during join-up and breakaway. For authorized B-52 formations, refer to AFTTP 3-3.B52.

3.5.1.2. Standard Formation. One in which each wingman maintains a proximity of no more than 1 mile laterally/longitudinally and within 100 feet vertically from the flight lead.

3.5.1.3. Nonstandard Formation. One operating under any of the following conditions (B-52s typically fly this type formation). The formation lead shall notify ATC upon initial contact that nonstandard formation operations are being conducted and, if required, advise ATC of the separation and spacing being employed (JO 7610.4U): (T-0).

3.5.1.3.1. When the flight leader has requested and ATC has approved other than standard formation dimensions.

3.5.1.3.2. When operating within an authorized altitude reservation (ALTRV) or under the provisions of a letter of agreement.

3.5.1.3.3. When operating in airspace specifically designed for special activity.

3.5.1.4. Formation Departure. A formation departure is the departure of multiple aircraft at intervals of 1 minute or less.

3.5.1.5. Enroute Formation. An enroute formation is two or more aircraft with the same intended route of flight, maintaining position by visual and/or electronic means. Formation flight requirements of [paragraph 3.5.3](#) apply. Should separation between the flight lead and any other aircraft in the formation exceed ATC separation limitations or vary significantly from that reported to ATC for the nonstandard formation, coordinate with ATC to obtain approval for greater separation or to suspend or cancel formation clearance. (T-0).

3.5.2. Responsibilities.

3.5.2.1. Flight Lead. Only ACs who are certified to be flight lead IAW AFMAN 11-2B-52, Volume 1, *B-52 Aircrew Training*, may be flight lead, unless under IP supervision. (T-2). The IP may supervise an uncertified AC from a wingman position. The flight lead may temporarily delegate flight lead duties for training or tactical considerations (i.e., equipment malfunctions).

3.5.2.1.1. Flight lead is responsible for safe and effective formation flight. (T-3).

3.5.2.1.2. Wingmen will execute lead's plan and adhere to briefed standards. (T-3). Wingmen will notify flight lead of any limiting conditions that may prevent them from executing the planned profile or limit speed, altitude, maneuvering, communications, etc. (T-3).

3.5.2.2. Mission Lead. The designated multi-ship mission lead is responsible for planning and execution of tactical employment of the formation, and will lead a formation debrief for the tactical portions of the mission. (T-3). The mission lead should brief tactical employment in conjunction with the formation briefing.

3.5.2.3. Formation Briefing. The flight lead will conduct a briefing for all crewmembers in the formation covering the planned activities, procedures, techniques, specific EMCON procedures and division of formation responsibilities. (T-3). If lead changes are planned, each flight lead should brief their portion of the mission. The flight lead must ensure all crewmembers in the formation thoroughly understand their responsibilities and will identify a deputy flight lead (if available). (T-3). Resolve any questions during the briefing. If aircraft depart from separate bases and rendezvous for formation activity, the flight lead will conduct a telephone briefing. (T-3).

3.5.3. Call Signs. To preclude confusion by ATC, if aircraft positions within a flight are changed, do not change the flight call sign or IFF squawk. (T-3).

3.5.4. EMCON. Practice EMCON to the maximum extent possible during peacetime in preparation for combat operations. (T-3).

3.5.5. Formation Takeoff. Takeoff interval is no less than 30 seconds for conventional and nuclear operations. (T-2). For receiver/tanker refueling formation departures, the receivers usually roll first, followed by the tankers in that element. Takeoff intervals or sequence may be varied as necessary depending on aircraft acceleration and performance, training requirements, weather, airfield conditions, and mission requirements.

3.5.5.1. Due to the high risk and time critical nature of take-off and initial phases of departure, flight lead will ensure each aircraft understands its responsibility in an aborted takeoff or in an emergency/malfunction immediately after takeoff. (T-3). Preview actions to be taken by each aircraft and intraflight communication/coordination. Brief procedures for loss of visual/radar contact during climbout. Flight leads should follow the standards in AFTTP 3-3.B-52 and brief any deviations.

3.5.5.2. Do not conduct Quick Taxi/Emergency War Order departure exercises (defined in AFMAN 11-2B-52 Vol 1) with nuclear weapons loaded aboard the aircraft or with aircraft gross weight over 450,000 pounds. (T-2). Do not conduct these exercises unless prior coordination has been made with all involved aircraft, local ATC and the involved ARTCC.

3.5.5.3. Quick Taxi/Emergency War Order Departure Taxi Procedures. Units will establish taxi plans from the normal parking area to each runway. (T-2). Flight lead will confirm takeoff data computations, accomplish guard receiver check, and copy ARTCC clearance in the chocks. (T-2). If takeoff clearance is canceled after the aircraft are rolling, aircraft short of the runway will not cross the hold-short line. (T-2). Following aircraft will set or adjust power as necessary to maintain proper spacing and a safe speed during taxi and alignment for takeoff roll.

3.5.6. Enroute Formation:

3.5.6.1. AFTTP 3-3.B-52 describes authorized enroute formation positions. If ATC does not approve block altitudes, formations may fly at a single altitude with suitable lateral spacing; however, flight leads should consider the additional risk and consider requesting separate altitudes instead of extended co-altitude flight.

3.5.6.2. Mid-mission join-ups should begin with intra-flight coordination on a briefed frequency. Flight leads must obtain approval by ATC prior to flying in formation. (T-0).

3.5.6.3. Issuance of separate clearance by ATC constitutes termination of formation flight for the cleared aircraft.

3.5.7. Battle Damage Checks. Flight leads should direct a battle damage check after actual weapon deliveries and/or prior to return to base. Do not perform visual checks in night or IMC, and fly no closer than route formation. (T-3).

3.5.8. Dissimilar Formations (B-52 and other aircraft). Aircrew will apply normal formation procedures during dissimilar formation as applicable while considering aircraft performance differences. (T-3). The flight/mission Lead will brief flight members on flight responsibilities, proper formation position (to ensure adequate wingtip clearance), and aircraft-unique requirements for each phase of flight. (T-3). The involved operations group commanders will approve planned dissimilar formations. (T-3). Unplanned formations should be limited to emergencies or urgent mission requirements.

3.5.8.1. Chase Operations. Prior to each planned chase sortie, the lead and chase crews will brief the mission profile, restrictions, and responsibilities. (T-3). Both aircraft must maintain radio contact throughout the operation. (T-3).

3.5.8.1.1. It is unsafe to fly in close vertical proximity to another aircraft due to the interrelated aerodynamic effects. Never fly directly over or under another aircraft. (T-3). The chase position is defined as:

3.5.8.1.1.1. Wings level position - at least 150 feet between wing tips or;

3.5.8.1.1.2. Stern position - approximately 1/4 mile behind and 100 feet below lead.

3.5.8.1.2. The normal chase position is on the right wing of lead.

3.5.8.1.3. The lead aircraft must inform the chase aircraft and receive acknowledgment prior to turns, climbs/descents, airspeed changes, or configuration changes. (T-3).

3.5.8.2. Lost Wingman Procedures. Formations will use the procedures in **Attachment 5** if separation cannot be assured. (T-3). Flight leads may modify these procedures if desired by prior coordination within the flight.

3.5.9. Low-level Formation. Weather, tactical considerations and mission objectives will dictate the degree and type of electronic emission and the extent of radio communications. When conducting low altitude training (LOWAT), formations may fly fighting wing/wedge or trail formation under day/VMC conditions only. (T-3). Reference **Attachment 2** for formation guidance specific to military training routes (MTRs).

3.5.10. Descent. The Flight Lead will brief descent procedures, tactics and airspeeds in the formation brief to ensure deconfliction. (T-3). The Flight Lead will inform all aircraft in the formation of any significant low-level weather prior to descent into the route. (T-3). If the formation will transition from high altitude visual conditions to low-level instrument conditions, all aircraft will ensure a means exists to ensure safe aircraft separation prior to descending. (T-3).

3.5.11. Separation of Aircraft. If altitude stack is not available or not suitable for employment, the Flight Lead will specifically brief deconfliction procedures (timing, "be-no" lines, etc.). (T-3). The Flight Lead will brief planned abort altitudes for the route/area, to include lost wingman contingencies. (T-3).

3.6. Traffic Pattern.

3.6.1. Use the following procedures for all landings.

3.6.1.1. To safely land a large jet aircraft, all landings (IFR and VFR) should look the same. Fly a stabilized approach with a 2.5 to 3.0 degree glidepath, which is compatible with standard ILS/Visual Approach Slope Indicator (VASI). Use a visual aim point of 1,000 feet down the runway corresponding with the fixed distance markers on a precision runway. (T-3).

3.6.1.2. Plan to land within the first 3,000 feet of the landing runway beginning at the threshold. (T-2).

3.6.1.3. Plan normal landings (IFR and VFR) to touch down on centerline within the touchdown zone (TDZ) at a point not less than 1,000 feet beyond the threshold. (T-3). For all landings, use a runway of sufficient width and length to permit a safe, full stop landing without the drag chute. (T-3). The desired TDZ is 1,200 to 2,500 feet beyond the threshold. Make the actual touchdown at a point and speed that will permit a safe, full stop landing within the remaining runway. (T-3). Initiate a go-around if this is not possible. Brief procedures to use in the event of an unplanned go-around before landing. (T-3).

3.6.2. Touch-and-go landings are authorized only under the following conditions:

3.6.2.1. Use a runway of sufficient width and length to permit a safe, normal full stop landing without the drag chute. (T-3). Make the actual touchdown in the designated TDZ of the runway at a point and speed which would enable a safe full stop landing on the remaining runway. Initiate a go-around if this is not possible. (T-3).

3.6.2.2. The Runway Condition Reading (RCR) must be 9 or higher for touch-and-go landings. (T-2).

3.6.2.3. Non-IP ACs are limited to a maximum of 4 degrees crosswind crab. (T-3).

3.6.2.4. Non-IP ACs require a minimum 1,000 feet ceiling and 3 miles visibility. (T-3).

3.6.3. IPs or ACs will brief, either inflight or during mission planning, the following items prior to accomplishing touch-and-go landings. The waiver authority to waive any of the briefing topics below is the Squadron Commander.

3.6.3.1. Flight manual procedures.

3.6.3.2. The importance of smooth power application and stabilizing power before advancing throttles. (T-3).

3.6.3.3. Go/No-go considerations and decision points while on the runway. (T-3).

3.6.3.4. Emergency jettison of drag chute. (T-3).

3.6.3.5. Proper use of airbrakes and stabilizer trim. (T-3).

3.6.3.6. IP or AC taking control of aircraft when necessary. (T-3).

3.6.3.7. Unplanned go-around using all throttles. (T-3).

3.6.4. See **Table 7.1** for limitations on simulated emergency procedures in the traffic pattern. Do not practice landings with less than 100 percent flaps, except as noted in **Table 7.1** (T-2).

3.6.5. Do not perform taxi back landings on wet runways. (T-3).

3.6.6. VFR overheads are authorized.

3.7. Postflight.

3.7.1. The crew will debrief with intelligence immediately after landing IAW the directives for the combatant command that their mission supported. If there is no guidance from the supported combatant command, at a minimum the crew will debrief with intelligence whenever encountering hostile or suspected hostile action during a mission. (T-3).

3.7.2. Flight crews will attend the maintenance debrief and will conduct a crew and a formation debrief IAW procedures defined in the local **Chapter 8** of this manual. (T-3). Complete all appropriate post-mission paperwork and turn it in as required. Units must ensure this paperwork is distributed to the proper agency in a timely manner. (T-3).

Chapter 4

INSTRUMENT PROCEDURES

4.1. Navigation. The B-52 is approved to use inertial navigation system (INS) for enroute RN Area Navigation (RNAV). RNAV approaches have not been adopted for use by the USAF and will not be flown.

4.2. Simulated Instrument Flight. Use of vision restricting devices to simulate instrument flight is prohibited. (T-3).

4.3. Airborne Radar Directed Approach (ARDA). In an emergency, it is possible for the WSO team to direct the pilot through a safe non-precision approach. When aircrew request to practice an ARDA, they must meet the following conditions:

4.3.1. Use a Department of Defense (DOD) FLIP terminal approach procedure with a designated FAF. (T-3). This does not restrict accomplishing an ARDA when cleared for a visual approach from the radar pattern provided VFR conditions can be maintained.

4.3.2. Obtain an ARTCC clearance for the specific approach procedure selected. (T-0).

4.3.3. Advise the appropriate ARTCC facility that the ARDA will be flown along with the requested DOD FLIP terminal approach, if applicable. (T-3).

4.3.4. VMC weather conditions must prevail from the final approach fix (FAF) to the missed approach point (MAP). (T-3). ARDA under lower weather minimums is restricted to emergency conditions when no other type of approach is available. (T-3).

4.3.5. Terminate the ARDA and resume pilot navigation if it becomes apparent that the aircraft will exceed the parameters established for terminal instrument procedures (TERPs). (T-3).

Chapter 5

AIR EXPENDABLES EMPLOYMENT

5.1. General. This chapter establishes procedures for B-52 expendable usage. Also reference AFI 11-214 and Chairman, Joint Chiefs of Staff Manual (CJCSM) 3212.02., *Performing Electronic Attack in the U.S. & Canada for Tests, Training and Exercises*. Units will develop procedures to handle hung/hot flare situations. (T-2).

5.2. Training Flare Drop Activity. The following applies to non-contingency operations only.

5.2.1. Conduct live flare drop activity only in authorized special use airspace contained in current FLIP planning documents and overwater firing areas. (T-2).

5.2.2. Do not drop flares if uncertain of aircraft position. (T-3). If practical, survey the fallout areas visually and with radar before and during all flare drops. (T-3).

5.2.3. Safety Precautions.

5.2.3.1. Do not power the flare ejector system until inside an approved flare drop area. (T-3).

5.2.3.2. Flare activity will be suspended or terminated whenever the aircrew is unable to sufficiently ensure safe conduct of the activity. (T-3).

5.2.4. A right hand empty light on the ALE-20 control panel should illuminate when all flare stepper switches have been activated and flares are dispensed. The light does not guarantee all flares have been expended. Therefore, do not accomplish low approaches or touch-and-go landings after making or attempting a flare drop. Touch-and-gos are authorized after munitions specialists confirm all flares were dispensed (none remaining). (T-3). Do not attempt a taxi-back sortie with confirmed hung, retained, or misfired flares. (T-3).

5.3. Inadvertent Release. In case of any inadvertent or uncommanded flare drop, take the following actions. The waiver authority to waive any of the following actions is the Squadron Commander.

5.3.1. Immediately safe the flare ejector system. Flares may still be used in self-defense. (T-3).

5.3.2. Record time and geographic coordinates of the inadvertent release. (T-3).

5.3.3. Contact the applicable airspace controller and advise them of the incident, approximate location, estimated or observed burnout altitude, and any observed ground contact or damage. (T-3).

5.4. Self-Defense Employment. During contingency operations, the mission planning cell (MPC) will identify high-risk areas and make recommendations for expendable settings and use based on SPINS, local procedures and burnout altitudes. (T-3).

5.5. Chaff. Aircrew will brief chaff employment restrictions to include range restrictions and AFI 11-214 guidance prior to training sorties with chaff loaded. (T-3).

Chapter 6

AIR-TO-GROUND WEAPONS EMPLOYMENT

6.1. References and Authorities. AFI 11-214 contains air-to-surface procedures applicable to all aircraft. Also, reference other applicable instructions, range guides, exercise or theater directives and SPINS. This chapter specifies additional procedures or restrictions applicable to B-52 operations.

6.1.1. Ensure all employment of actual weapons is properly authorized and cleared. (T-0).

6.1.1.1. Authorization to employ weapons for training is given by the wing commander, typically by the 21-165 process. In combat, contingency operations and certain HHD exercises, authorization is given via the ATO, EXORD or similar orders.

6.1.1.2. Aircrew must coordinate final target designation (if not previously received) and clearance to release with ATC, range agencies, and operational and/or tactical controllers (e.g., AOC, JTAC/TACP/FAC, etc.) as applicable. (T-0).

6.1.2. Units will ensure crewmembers are qualified and proficient, or properly supervised, prior to employing actual weapons (T-1). When employing actual weapons, qualified or supervised crewmembers must occupy primary crew positions. (T-2). When carrying nuclear weapons, mission-ready crewmembers must occupy basic crew positions. (T-1).

6.1.3. Each mission involving actual weapons will reference current range guidance and will coordinate number and type of weapons and assigned targets. (T-3). Any exceptional arrangement or waiver for an actual weapons release will be documented in writing. (T-3).

6.1.4. On test sorties, specific portions of this chapter may be waived by instructions contained in the operations order, test plan, or implementation message which directs the test.

6.1.5. Direct questions concerning weapon ranges and restrictions to the local squadron weapons office or AFGSC, Weapons and Tactics (AFGSC/A3TW) if unable to find the responsible agency.

6.2. Definitions.

6.2.1. Weapon. Any high explosive (HE), inert, or training munition. This includes any releasable store -- HE, inert, or other (e.g. MALD) -- but excludes chaff and flares.

6.2.2. High Explosive Weapon. An actual weapon configured with live functioning fuses (i.e. having a live primer mated with electrical power) or high explosives. Planners and crews should be alert for differing usage of "live," as in some instances it may be used by other agencies to denote an actual weapon (e.g. "live" vs. "virtual" or "simulated"). When appropriate, further clarify by describing the weapon as high-explosive.

6.2.3. Inert weapon. An actual weapon that does not have a functioning fuse or high-explosive. This includes weapons with functioning guidance systems (e.g. LGB seekers/tail kits), avionics and/or propulsion. If a weapon is used with inert submunitions that will separate, it is still considered inert but care should be taken to ensure involved agencies know the submunitions will disperse and to describe any charges used in the weapon's function.

6.2.4. Training weapon. A weapons that should be reserved for inert weapons or training aids whose anticipated purpose is for ground training.

6.2.5. Attempted Release. Aircrew have properly configured for release (or jettison) and the bombing system has issued a release pulse or command.

6.2.6. Retained Weapon. Weapons on board the aircraft with no release attempt or after successfully releasing the intended number of weapons in a partial load. For example, an aircraft with nine Mk-82s plans to drop three bombs on each of three targets. Due to weather it attacks only one target. The aircraft now has six retained weapons. Weapons not released due to procedural error are considered retained.

6.2.7. Hung Weapon. A weapon that fails to separate from the aircraft after an attempted release.

6.2.8. Unconfirmed Hung. A term used to communicate uncertainty that could not be resolved airborne. This is not an official status. Crews that suspect hung weapons will follow hung weapons procedures. (T-3).

6.2.9. Visual Confirmation. Confirmation of actual weapon status (weapons away, weapons retained, weapons hung) by either definitive observation of weapons impacts or of weapons in flight/fall, or definitive inspection of stations where weapons are/were loaded, or both. "Naked eye" observations (as opposed to high-res video w/playback) is generally limited to single or isolated weapons/impacts, or weapons stations reliably visible from the cockpit. In all cases, each weapon must be spotted/all involved stations must be inspected. (T-3).

6.2.10. Weapons Interface Unit (WIU) Weapon. Any weapon type utilizing the AIU system with an MIU or WIU to facilitate a release. WIU weapon releases are verified if the respective SMO display for that weapon shows "AWAY" without a "HUNG" fault indication. OAS messages (e.g., "xy:HUNG") and displays (Stores Summary and Weapon Status pages) indicate a hung weapons status.

6.2.11. Radar Interface Unit (RIU) Weapon. Any weapon type utilizing the DBRIC, Release Circuits Disconnect (RCD), and RN station Bomb Indicator Lights to facilitate a weapon release. RIU weapon releases are verified if the bomb indicator lights at the RN station are consistent with DBRIC settings for that release. If corresponding lights do not extinguish following an attempted release, crews should consider themselves hung.

6.3. Planning Guidance.

6.3.1. Releases may be performed only within a designated training range, approved weapons release area, or approved salvo area. In contingency operations, weapons may be employed on previously coordinated/assigned targets or on targets designated by appropriate release authorities (e.g., AOC, JTAC/TACP/FAC, etc.). Crews must be briefed on and comply with no-fly/no-fire areas and collateral restrictions, and during execution should ensure that target areas are consistent with the overall operational picture. (T-2).

6.3.2. Aircrew will ensure system accuracy prior to weapon release. (T-3). Methods to ensure system accuracy include target or aimpoint verification using the radar or targeting pod. Do not release weapons if any doubt exists as to the accuracy of the bombing system. (T-2).

6.3.2.1. Adhere to theater guidance and SPINS for GPS FOM and OAS buffer restrictions. (T-3).

6.3.3. B-52 aircrew may employ weapons in IMC or through an undercast layer provided they comply with applicable restrictions in the range supplement, SPINS, or release authority instructions.

6.4. Target Data Verification. Ensure targets are positively identified and friendly/collateral damage concerns are mitigated. A minimum of two crewmembers will verify OAS, Targeting Pod, or Link targeting parameters as programmed for release. (T-3).

6.4.1. If functioning, the pilots should confirm weapon type, number of weapons, bomb code and target coordinates via the Weapons Summary Screen (WSS) or appropriate CONECT display, for all weapon releases. Reading coordinates between compartments is not required if pilots and offense are able to independently confirm coordinate accuracy (T-3).

6.4.2. All crewmembers should still use any means available to independently confirm weapon accuracy, when able. (T-3).

6.5. Inflight Procedures.

6.5.1. Do not open bomb bay doors during flight with internal weapons on board other than for intentional release or jettison. Open doors only in airspace cleared for release, and over a weapons employment area. (T-3).

6.5.2. When carrying weapons, pre-release or retained, do not conduct approach to stall, simulated engine loss procedures, or other potentially hazardous activity. (T-2). Carrying weapons does not preclude accomplishing fighter intercept exercises (FIEs, see 6.5.5 below), air refueling, or transition excluding simulated engine loss procedures and touch-and-go landings.

6.5.3. Accomplish "Weapons Preparation for Release" check over open water or sparsely populated areas when practical. (T-3).

6.5.4. Do not complete the release configuration check until the aircraft is within the designated bombing range. (T-3). For contingency operations, accomplish as directed by SPINS or in a location that minimizes risk of friendly/collateral damage (e.g. over water/sparsely populated areas/known hostile territory). When able, minimize time between configuration check and actual releases. (T-3).

6.5.5. While carrying weapons configured for release (Release Configuration Check Complete), do not conduct fighter intercept exercises (unless planned as part of an exercise and conducted in range airspace), simulated weapons runs, transition, or air refueling (unless operationally necessary). (T-3).

6.5.6. Training Restrictions.

6.5.6.1. Do not accomplish external simulated weapons training (activity in SIM or PART SIM mode) with external weapons loaded. (T-2). Do not accomplish internal simulated weapons training with internal weapons loaded. (T-2).

6.5.6.2. Crews shall accomplish external simulated weapons training with internal weapons loaded, or internal simulated training with external weapons loaded under the following conditions:

6.5.6.2.1. The OAS will be reloaded with a FERRY mission. (T-2).

6.5.6.2.2. The weapons simulated will be a different SMO from the weapons loaded. (T-2).

6.5.6.2.3. There will be no SMO loaded at the location where weapons are present and the associated WIU/MIU will remain off. (T-2).

6.5.6.3. After positive verification of release of all weapons, aircrew may conduct additional training without restrictions.

6.5.7. Recovery. If internal weapons were carried, do not open the bomb bay doors unless/until cleared by maintenance. (T-3).

6.6. Release Verification.

6.6.1. The primary means of release verification is cockpit indications, as defined for WIU/RIU releases (paragraphs 6.2.10 and 6.2.11.). However, aircrew will obtain and consider all readily available sources of information (targeting pod, ground party reports, wingman reports, etc.) when assessing weapon release or system malfunctions. (T-3). If contradictory indications are found and cannot be resolved, crews should follow hung weapons procedures.

6.6.2. Training. Visual confirmation between weapon releases is not required as long as the OAS/bomb indicator lights do not indicate (a) hung weapon(s). Aircrew with hung weapon indications will follow hung weapons procedures unless/until their status is changed. (T-3).

6.6.3. Contingency Operations. Requirements for visual confirmation and hung weapons procedures may be adjusted based on theater commander guidance, SPINS, and local procedures. If mission priorities and ALR justify the risk (if any) of inadvertent release, store-to-store or store-to-ship contact, the AC may continue releases if hung indications exist. Crews will attempt to confirm and/or correct the issue when able, and follow hung weapon procedures for recovery. (T-3).

6.6.4. For RIU weapons, aircrew should obtain visual confirmation prior to departing the range or employment area. If the aircrew cannot obtain visual confirmation that no weapons are hung, they will adhere to hung weapons procedures unless/until their status is changed. (T-2).

6.6.5. If a range control officer (RCO)/ground party and/or targeting pod (TGP) video are available and fail to spot a weapon, crews will assess the possibility of a dud, low-order detonation, or a weapon falling off target. (T-3). If such assessment casts doubt on weapons or weapon system reliability, discontinue releases unless mission priorities and ALR justify continuing. (T-3). In all cases, attempt to spot the actual impact, capture applicable data and report to appropriate agencies during/after flight. (T-3).

6.7. Weapon Jettison. Aircrew will brief jettison contingencies, applicable restrictions, and weapon-specific procedures during crew or step brief. (T-3) Attempt a weapons jettison if required for safety of flight, operational requirements, or if there is concern that a hung weapon may separate. If hung weapons are not jettisoned, the crew will accomplish the post release/abort checklist and return directly to home station or other suitable landing base. (T-3).

6.7.1. Training. If hung indications are encountered, contact the RCO for authorization to release or jettison hung weapons in a suitable area, if local guidance allows. Follow range rules, RCO instructions and technical order guidance. (T-1).

6.7.2. Contingency Operations. Hung weapons may be jettisoned IAW SPINS and/or HHD/local guidance.

6.8. Hung Weapon Procedures. If a weapon is known or suspected to be hung and cannot be visually confirmed to have separated from the aircraft, comply with the following. If a jettison is appropriate and can be visually confirmed, or hung indications are resolved by visual confirmation, leaving only retained weapons or no weapons, crews may return to normal guidelines. 1760 weapons that do not display “xy:HUNG” should be considered retained. Advise maintenance personnel on landing and annotate in forms. (T-3).

6.8.1. Do not attempt any further releases, except as provided in [paragraph 6.6.3](#) (T-3).

6.8.2. If necessary, accomplish the bomb bay check. Due to risk to personnel, such checks should not be attempted unless a specific compelling need exists to enable additional releases or follow-on activity rather than applying hung weapons restrictions. (T-2).

6.8.3. During recovery, comply with restrictions for carried weapons. Additionally, accomplish air refueling only if required to recover the aircraft. (T-3). Do not rotate the CRL/CSRL. (T-3). Avoid overflight of populated areas, do not accomplish simulated emergency training, and fly a single approach to a full stop. (T-2).

6.8.4. Aircraft with hung weapons will declare an emergency prior to landing (T-3). Aircrew with hung weapons will accomplish a ground weapons check with maintenance immediately after landing and will follow locally developed guidance for safe recovery and de-arming. (T-3).

6.9. Targeting Pod (TGP) Restrictions. Minimum altitude for use of turret-based targeting pods is 1,000 feet AGL (e.g. LITENING). (T-3).

Chapter 7

ADDITIONAL OPERATIONAL LIMITS AND RESTRICTIONS

7.1. New/Modified Aircraft Equipment/Weapons. Crewmembers not qualified in the operation of new or modified aircraft equipment are restricted in aircrew duties as follows:

7.1.1. They will not be placed on alert with an aircraft so equipped or modified. (T-2).

7.1.2. They will not operate that equipment on any flight unless supervised IAW the supervisory requirements of the syllabus, training plan, or squadron commander. (T-2).

7.2. Fuel Quantity Indication System Failure. During peacetime missions, each fuel quantity indicator for each fuel tank must be fully operational. (T-3). Exceptions:

7.2.1. When a standard fuel load results in one or more empty tanks, the respective fuel quantity indicator for the empty tank need not be fully operational provided:

7.2.1.1. The tank will remain empty throughout the flight, including inflight refueling.

7.2.1.2. The fuel quantity gauge indicates zero.

7.2.1.3. The circuit breaker for the respective indicator is pulled and a safety clip installed to prevent inadvertent resetting.

7.2.2. Aircraft may be flown with one external or one outboard, but not more than one total tank gauge, wing tank gauge inoperative or malfunctioning, provided the following procedures are adhered to:

7.2.2.1. The aircraft is loaded with a standard fuel load. (T-3).

7.2.2.2. The circuit breaker for the inoperative or malfunctioning gauge is pulled and a safety clip installed to prevent inadvertent resetting. In this situation, the pilots must realize that regardless of the gauge indication, the total fuel quantity indicator will be receiving indications that the tank is empty. Therefore, there will be a discrepancy between the total fuel quantity indication and the actual amount of fuel on board. (T-3).

7.2.2.3. The fuel flow indicator for that tank is fully operational. (T-3).

7.2.2.4. Pilots must be vigilant when using fuel from a tank having an inoperative or malfunctioning fuel gauge since the only indication of fuel flow will be the fuel flow indicator light, lateral trim indications, and balance of fuel between main tanks one and four. (T-3).

7.3. Takeoffs and Critical Phases.

7.3.1. Takeoffs with one or more engines inoperative from start of takeoff roll are prohibited. (T-2).

7.3.2. During emergency evacuation, takeoff with one or more engines inoperative may be accomplished at the discretion of the wing commander or if directed by higher headquarters. wing commanders or higher headquarters may authorize actual RCR (or 12 if it cannot be measured) for wet runway takeoff data computations in emergency conditions.

7.3.3. An A-coded pilot must occupy a primary seat during all critical phases of flight. (T-3). For weapons releases, an IP may supervise two pilots (neither with an A-code) from the IP seat. (T-3).

7.4. Unusual Attitudes and Stalls. Unusual attitudes and stalls are prohibited. (T-0).

7.5. Initial Buffet.

7.5.1. Perform all inflight initial buffet practice as prescribed in the flight manual and under IP supervision (pilot in a primary seat). (T-3).

7.5.2. Pilots must review and discuss the correct recovery procedures and limitations for accomplishing initial buffet with the crew during mission planning. (T-3).

7.5.3. Practice recovery from initial buffet at a minimum altitude of 20,000 feet above the terrain. If clouds exist between the aircraft and the terrain, the aircraft must be at least 10,000 feet above the tops of the clouds. Do not practice recovery from initial buffet above FL 300 or at gross weights above 300,000 pounds. (T-3).

7.5.4. Perform the entire initial buffet maneuver with wings level. (T-2).

7.5.5. Do not practice initial buffet with weapons or missiles loaded. (T-2).

7.6. Fuel Minimums. The fuel reserve requirements of AFI 11-202 Vol 3 apply as augmented below:

7.6.1. Emergency fuel is 12,000 pounds in the main tanks. Minimum fuel is 20,000 pounds in the main tanks. Ballast fuel required in auxiliary tanks cannot be considered part of emergency or minimum fuel. Crews will land at or above minimum fuel. (T-2). If at any point in flight the crew expects to land below emergency fuel, adjust the profile (to include diverting, as needed) and/or declare an emergency. (T-3).

7.6.2. Standard recovery fuel is 40,000 pounds. This is a general planning factor, and may be increased based on alternate requirements, follow-on missions, or other factors. If an alternate is required, fuel may be planned based on diverting to then landing at the alternate with minimum fuel – standard recovery fuel need not be applied.

7.6.3. For remote or island destinations, the planning factor is 54,000 pounds. This may be reduced if an alternate is not required and minimum fuel is assured.

7.7. Emergency Limitations.

7.7.1. Contact the unit or controlling command post when encountering emergencies. This should not interfere with immediate concerns dictated by the situation (i.e. aircraft control, checklist procedures, etc.). Consider using the supervisor of flying (SOF), Duty IP, or other agencies (e.g. Boeing) for assistance. (T-3).

7.7.1.1. Informing ATC of an emergency should be accomplished after critical actions at a minimum, and may be delayed until shortly prior to landing unless assistance is needed. If immediate maneuvering is required (e.g., emergency descent), consider switching IFF to 7700 when able.

7.7.1.2. Aircrew may squawk 7600 if effective communication with ATC is lost (e.g., excessive interference), even if radios are still operative.

7.7.2. In an actual emergency, terminate all training and emergency procedures practice. Crewmembers will return to their respective crew positions and remain there unless operational requirements or the nature of the emergency dictate otherwise. Resume training only when the pilot in command determines no hazard to safe aircraft operations exists. (T-3).

7.7.3. If aborting the mission only limited training is authorized while flying to the recovery field and/or reducing gross weight for landing. Low-level, fighter activity, air refueling (unless required for safe recovery of the aircraft) and transition are prohibited. (T-3).

7.7.4. If continuing the mission, identify and mitigate the effects on the mission of the malfunction(s), especially those that result in:

7.7.4.1. Loss of pressurization.

7.7.4.2. Loss of mapping radar and weather avoidance capability.

7.7.4.3. Loss of navigation capability.

7.7.4.4. Degraded instrument capability.

7.7.4.5. Potential effect of multiple or compound equipment malfunctions.

7.7.5. If it becomes necessary to shut down two or more engines, or one engine for fire or fire indication, abort the mission. Aircraft with confirmed or suspected fuel leaks will abort the mission. (T-3).

7.7.6. Aircrew should declare an in-flight emergency (IFE) for any of the following situations:

7.7.6.1. Any time an aircraft malfunction requires priority or special handling by ATC. This does not include equipment malfunctions with procedural implications (e.g., transponder inoperative) rather than direct safety concerns.

7.7.6.2. Any time an Emergency Procedure (EP) checklist states “land as soon as possible.”

7.7.6.3. Any situation where aircrew refer to a technical order emergency checklist that directs additional/alternate procedures or restrictions for landing.

7.7.6.4. In any case where current or foreseeable system failures could make immediate ground assistance (e.g., fire, medical, maintenance, supervision) advisable.

7.7.6.5. Any engine loss, fire, fuel or flammable leak, or complete electrical failure, even if it appears to have been resolved.

7.7.6.6. If any doubt exists in the opinion of the aircrew or SOF about the safety of the aircrew or aircraft’s performance.

7.8. Inflight Simulated Emergency Procedures.

7.8.1. Brief all practice maneuvers or emergency procedures before the maneuver (either inflight or during mission planning). The pilot should alert all crewmembers prior to all maneuver demonstrations or inflight emergency procedures practice. (T-3).

7.8.2. Do not practice compound emergencies during critical phases of flight except those specifically authorized for flight instructor course (FIC) training. See [Table 7.1](#) for additional simulated emergency restrictions. (T-2).

Table 7.1. Simulated Emergency and Transition Limitations.

Maneuver	Max Wt	Weather	IP Supervision (IP in a primary	Additional Restrictions	Remarks
Simulated Engine Loss on Takeoff	290,000 lbs	Note 6	Required	N/A	Limited to one engine simulated inoperative above S-1 speed or 100 KIAS, whichever is higher. Dry runway. Max 10 kt crosswind
Simulated Six Engine Approach	290,000 lbs	Note 1	Required for other than day VFR	Note 2	
Simulated Six Engine Landing	290,000 lbs	Note 1	Required	Note 3	Dry runway. Max 10 kt crosswind component.
Simulated Six Engine Approach and Go-Around (Symmetric)	270,000 lbs	Note 1	Required for other than day VFR	Note 2	
Flaps Up Approach	290,000 lbs	Note 1	Required for other than day VFR	Notes 2 & 5	
Flaps Up Touch-and-go	250,000 lbs	Note 1	Required	Notes 2, 4, 5, & 8	Qualified Instructor Required. No gusty winds.
Low Approaches with One Engine Shut Down	290,000 lbs	Note 1	Required for other than day VFR	Note 2	Prohibited if engine(s) was shut down for fire, fire indication, or fuel leak.
Traffic Pattern Operations	325,000 lbs				
Landing Attitude Demonstration	290,000 lbs	Day/Night Note 6	Required		Flaps down, touch-and-go limitations apply
Simulated Rudder/Elevator Out Approach	270,000 lbs		Required	Notes 2 & 8	Qualified Instructor Required. Avoid turbulence. Resume normal control inputs immediately if excessive deviations
Two-Engine Go-Around Capabilities	250,000 lbs		Required	Notes 7 & 8	Qualified Instructor Required.

Notes:

1. Day/Night. No lower than circling minimums or 1,000 feet ceiling and 3 miles visibility (2 miles if under radar contact), whichever is higher.
2. 200 feet Height Above Touchdown (HAT) or Decision Height (DH)/Minimum Descent altitude (MDA) for the approach being flown, whichever is higher.
3. Comply with the following if a touch-and-go is to be accomplished: Touch-and-go limitations apply. No other simulated emergencies may be practiced during the maneuver. Rudder trim must be centered when decision is made to land. Eight engine symmetrical thrust must be used for takeoff. If unplanned go-around is executed, symmetrical thrust will be established on all engines. **(T-2)**.
4. Dry runway crosswind component is 10 knots maximum. Touchdown must be made in the first third of the runway or go-around will be initiated. **(T-2)**.
5. 200 feet AGL to make decision to land or go-around.
6. Discernible horizon and the end of the runway visible.
7. Initiate go around no lower than 200 AGL for flaps up and 800 AGL for flaps down two-engine go-around capabilities demonstrations.
8. Operations group commander approval required if accomplished outside of formal syllabus. "Qualified Instructor" is defined as a FIC instructor or an instructor trained by FIC cadre and certified by the operations group commander.

Chapter 8

LOCAL OPERATING PROCEDURES

8.1. General. Distribute this chapter to MAJCOM/NAF OPRs, as applicable. Specific items should include, but need not be limited to, the following:

8.1.1. Purpose

8.1.1. **(BARKSDALEAFB) Purpose.** This supplement implements the Barksdale (2 BW and 307 BW) B-52 Aircrew Operational Procedures.

8.1.2. Applicability

8.1.2. **(BARKSDALEAFB) Applicability.** The provisions of this chapter apply to all B-52 aircrew members flying 2 BW and 307 BW aircraft. Procedures specific to crews flying either 2 BW aircraft or 307 BW aircraft only will be indicated by either **(2 BW)** or **(307 BW)** at the beginning of the applicable sentence or paragraph. OG responsibility is determined by aircraft ownership, not crew composition. Any reference to “Top 3” or “SOF/O” equates to 307th BW SOF, as applicable. Any reference to the “Top 3” or “SOF” will apply to the “SOF/O,” if on duty.

8.1.3. Recommended Changes

8.1.3. **(BARKSDALEAFB) Recommended Changes.** Submit changes to the 2 Operations Group Standardization and Evaluation office (2 OG/OGV) via AF Form 847.

8.1.4. Normal Operating Procedures

8.1.4. **(BARKSDALEAFB) Waiver Authority.** The Operations Group Commander (OG/CC), unless stated otherwise, is the waiver authority for this supplement. Submit waivers for OG/CC approval through 2 Operations Group Standardization and Evaluation (OG/OGV).

8.1.5. Instrument Procedures

8.1.5. **(BARKSDALEAFB) [2 BW] Mission Preparation.**

8.1.5.1. **(Added-BARKSDALEAFB)** During the period of time designated for mission planning, mission planners will not be scheduled for non-mission planning related activities unless authorized by the SQ/DO or higher. Mission rehearsal Weapons System Trainers (WST) may be scheduled during mission planning day.

8.1.5.2. **(Added-BARKSDALEAFB)** Required Publications (IAW AFMAN 11-2B-52V3, 2.3.2.). All aircrew will update EFBs with current, OGV-maintained “Currency of T.O.s” and “Currency of Directives,” at a minimum. Additionally, all aircrew will carry “applicable” hard-copy checklists (per AFGSCI 11-270, 3.4.4.) on each flight IAW **Table 8.1** (BARKSDALE).

Table 8.1. (Added-BARKSDALEAFB) Required Hard-Copy Publications.

Pilots	WSOs	EWOs
T.O. 1B-52H-1CL-1	T.O. 1B-52H-1-12CL-1	T.O. 1B-52H-1-13CL-1
	T.O. 1B-52H-34-2-1CL-1	
	T.O. 1B-52H-30-4CL-1*	
*Only carried on nuclear sorties		

8.1.5.3. **(Added-BARKSDALEAFB) Personal Electronic Devices (PED)** – Deleted: See guidance in AFMAN 11-202V3_AFGSCSUP paragraph 3.16.

8.1.6. Weapons Employment

8.1.6. (BARKSDALEAFB) Cold Weather Operations.

8.1.6.1. **(Added-BARKSDALEAFB) Winter operations** are defined as the time period between 1 November and 31 March. During this period, the stabilizer trim will be set to 8 units nose- down during the After Landing checklist.

8.1.6.2. **(Added-BARKSDALEAFB) Winter Clothing Requirements.** During designated winter months, winter flight jackets, winter boots (if issued), winter underwear tops/bottoms, winter gloves, and winter hat should be carried or worn by all aircrew.

8.1.7. NVG Procedures

8.1.7. (BARKSDALEAFB) Ground Operations Timing.

8.1.7.1. **(Added-BARKSDALEAFB)** The standards in [Table 8.2](#) are based on time prior to scheduled takeoff time. [307 BW] Crew show will normally be a minimum of 2+45 prior to takeoff.

Table 8.2. (Added-BARKSDALEAFB) Ground Operations Timing.

Sortie Type	Step Brief*	Bus*	Station*	Check In	Eng Start	Clearance	Taxi
2 OG Standard	2+00	1+40	1+30	0+45	0+40	0+20	0+15
307 OG Standard	2+30	2+15	2+00	0+55	0+50	0+20	0+15
* 2 OG sorties with weapons will add 15 min.							

8.1.8. Abnormal Operating Procedure.

8.1.8. (BARKSDALEAFB) Sortie Delays.

8.1.8.1. **(Added-BARKSDALEAFB)** Crews delayed to the extent that the mission will no longer be effective will coordinate with the Operations Supervisor (Top 3) for mission cancellation.

8.1.9. Classified Local Electronic Warfare Mission Guide

8.1.9. (BARKSDALEAFB) Duration and Land Times.

8.1.9.1. **(Added-BARKSDALEAFB)** All sorties projected to land more than 0+30 past scheduled land time will coordinate with the SOF as soon as a new projected land time is determined (e.g., ground delays, weather, air refueling changes, pattern requirements).

8.1.9.2. **(Added-BARKSDALEAFB) [2 BW]** Land times beyond the daily flying window require 2 MXG/CC and 2 OG/CC approval. Aircrews requesting to land outside of the daily flying window will coordinate with the SOF. The SOF will obtain approval through Bomber 9 and the 2 OG/CC.

8.1.10. (Added-BARKSDALEAFB) Aircraft Readiness and Exterior Inspection.

8.1.10.1. **(Added-BARKSDALEAFB) [2BW]** All crewmembers should be present while the AC briefs the Aircraft Form 781. During aircraft inspections, aircrew will pay particular attention to ensuring hatches are secure, air ducts/vents/pitot static tubes are clear, and no foreign objects are left in the bomb bay or wheel wells. Ensure any issue is resolved prior to accepting the aircraft from maintenance.

8.1.11. (Added-BARKSDALEAFB) Starting Procedures.

8.1.11.1. **(Added-BARKSDALEAFB) [2BW]** When utilizing starter-cartridges, aircrew will confirm with their crew chief that fire-coverage is available 30 minutes prior to engine start and provide updates 15 minutes prior to adjusted engine start. Visual confirmation of fire truck presence is not required to commence engine start.

8.1.11.2. **(Added-BARKSDALEAFB)** Except for EWO/ALERT starts, or any other situation requiring an immediate engine start, allow all engines to idle for 2 minutes prior to advancing throttles.

8.1.12. (Added-BARKSDALEAFB) [2 BW] Post-Flight Inspection.

8.1.12.1. **(Added-BARKSDALEAFB)** 2OG aircrew are required to complete a detailed post-flight exterior inspection after every flight. Aircrew will utilize the route depicted in T.O. 1B-52H-1 Page 2-236 to follow during the post-flight inspection. Aircrew will look for aircraft damage, bird strikes, and ensure engine access panels are secure. Any damage found must be reported immediately for further evaluation via Maintenance debrief and Operations Group channels.

8.1.13. **(Added-BARKSDALEAFB) EMCON Procedures** – Deleted: See guidance in AFMAN 11-202V3 and AFMAN 11-202V3_AFGSCSUP paragraph 3.35.

8.1.14. (Added-BARKSDALEAFB) [2 BW] Post-Mission Rest Period.

8.1.14.1. **(Added-BARKSDALEAFB)** Scheduled activities following the completion of an official duty day must permit 10 non-duty hours, including the opportunity for at least 8 hours of uninterrupted sleep. Squadron commanders may authorize rest periods that are less than 10 hours, but cannot approve rest periods less than 8 hours. Commanders will not waive minimum rest period requirements solely to support evaluations, exercises, or inspections.

8.1.15. (Added-BARKSDALEAFB) Operations when National Airborne Operations Center is Present.

8.1.15.1. **(Added-BARKSDALEAFB)** When there are alert aircraft (i.e., NAOC/TACAMO) within the Alert Parking Area, a maximum of only two aircraft may occupy the north hammerhead when Runway 15 is active to ensure alert response routing to the active runway. Additional aircraft will stop abeam Site 1 until receiving takeoff clearance. Aircrew will not release the drag chute on Taxiway Alpha when landing on Runway 33. For unfamiliar aircrew, the SOF will be the coordinating liaison between the aircrew, airfield operations, and tower personnel.

8.1.16. (Added-BARKSDALEAFB) Aircrew Flight Equipment.

8.1.16.1. **(Added-BARKSDALEAFB)** Survival Vests. Unless more restrictive theater guidance is present, crews will adhere to the following:

8.1.16.1.1. **(Added-BARKSDALEAFB)** CONUS training missions: Carriage and wear is optional.

8.1.16.1.2. **(Added-BARKSDALEAFB)** OCONUS training missions: Carriage is mandatory and wear is optional.

8.1.16.1.3. **(Added-BARKSDALEAFB)** Combat missions: Carriage is mandatory and should be worn per JPRC recommendation or theater requirements.

8.1.16.2. **(Added-BARKSDALEAFB)** Night Operations. Aircrew Laser Eye Protection (ALEP) are effective at mitigating a large range of electromagnetic magnetic radiation, including the full spectrum of visible light. All pilots will carry the night-version of the issued ALEPs for every sortie in which any portion of the flight will be flown during night and/or civil twilight hours, as defined in AFMAN 11-202V3.

8.1.17. (Added-BARKSDALEAFB) Route/Target Study.

8.1.17.1. **(Added-BARKSDALEAFB)** Aircrew accomplishing the same weapon/mission activity or LOWAT on consecutive days (e.g., Mission Plan-Fly-Fly sorties) do not require an additional target study, nor do TDY-return sorties, provided there are no changes from previously briefed information.

8.1.18. (Added-BARKSDALEAFB) Transition.

8.1.18.1. **(Added-BARKSDALEAFB)** Night Transition. The first approach to any off-station airfield at night will be a precision approach, if available. When necessary for training/evaluation requirements, the first night approach into an airfield may be a non-precision approach if other vertical guidance (e.g., PAPI) is available.

8.1.18.2. **(Added-BARKSDALEAFB)** Drag Chute Wear Mitigation. Retention of the drag chute is permitted at or below 270,000 lbs. gross weight on a dry runway at Barksdale AFB.

8.1.18.3. **(Added-BARKSDALEAFB) [307 BW]** All Combat Flight Instructor Course (CFIC) qualified instructors are approved to conduct CFIC pattern demonstration events on any FTU sortie.

8.1.19. (Added-BARKSDALEAFB) Off-Station Transition.

8.1.19.1. (Added-BARKSDALEAFB) Regardless of the level of airfield familiarity, mission planning for off station transition should include, but is not limited to, the B-52-adapted “WANTS check” items listed in **Table 8.3 (BARKSDALE)**.

Table 8.3. (Added-BARKSDALEAFB) B-52 Adapted WANTS Check.

Category	Sub-Category
W	<u>W</u> eather (airfield & enroute) / <u>W</u> inds
A	<u>A</u> irfield/ <u>A</u> ircraft Data: AGE, Runway length/width, gross weight at the initial approach fix, compatible approaches/PAR/ASR, pavement classification number, pattern altitude/direction, airfield notification/approval for transition
N	<u>N</u> OTAMs
T	<u>T</u> axi Plan / <u>T</u> hreats: Bird status (Bird Avoidance Model, NEXRAD, and/or tower observations), low close-in obstacles, arrival/departure gradients, flight duty period
S	<u>S</u> ID / <u>S</u> TAR / <u>S</u> unset Time

8.1.19.2. (Added-BARKSDALEAFB) Level 1: OG “Familiar” Transition Airfields

8.1.19.2.1. (Added-BARKSDALEAFB) All transition maneuvers are authorized at the airfields listed in **Table 8.4 (BARKSDALE)**, gross weight permitting (N/A Shreveport Regional, Alexandria International, and Lackland/Kelly Field).

Table 8.4. (Added-BARKSDALEAFB) Level 1: OG “Familiar” Transition Airfields.

Airfield	ICAO	Enroute Distance	Longest Rwy Dimensions	BASH Phase II Period
Shreveport Regional*	KSHV	9	8,348 x 200 ¹	N/A
Alexandria International	KAEX	90	9,352 x 150 ¹	N/A
Chennault International	KCWF	140	10,702 x 200	N/A
Fort Worth NAS JRB	KNFV	191	11,999 x 200	May – June, September – October
New Orleans NAS JRB#	KNBG	248	10,001 x 200	March – September
Tinker AFB	KTIK	255	11,100 x 200	15 October – 15 December & by NOTAM
Dyess AFB#	KDYS	314	13,500 x 300	April – June, September – November
Lackland/Kelly Field	KSKF	318	11,550 x 150 ¹	March – November
Clinton-Sherman#	KCSM	324	13,503 x 200	N/A
McConnell AFB	KIAB	352	12,000 x 150 ²	1 September – 1 March
Whiteman AFB#	KSZL	374	12,400 x 200	April – May, 15 September – November
Eglin AFB	KVPS	385	10,001 x 300 ³	October – May
Amarillo/Rick Husband	KAMA	433	13,502 x 200	N/A
Robins AFB#	KWRB	510	12,001 x 300	November – 15 March
Roswell Air Center	KROW	550	13,001 x 150 ²	N/A
Minot AFB	KMIB	1,016	13,198 x 300	March – May, September – November
Nellis AFB#	KLSV	1,082	10,120 x 200	N/A

¹Low Approaches only due to runway width, length, and/or raised lighting.
²Runway is painted to 150 ft width. Runway is paved/lighted for ≥200 ft width.
³KVPS Rwy 01-19. Rwy 12/30 not stressed for B-52 Operations.
*Approaches are restricted to the hours of 0900 to 2200L. Circling approaches are prohibited after 1800L, and no more than two consecutive practice circling approaches may be flown at any given time. To reduce noise complaints, all aircraft will fly runway heading after completion of the approach, and will not begin any turn until reaching 1,500 feet MSL, unless otherwise directed by ATC. Overhead patterns and touch-and-go landings are not authorized.
#Runway not stressed for continuous B-52 operations at all traffic pattern weights. Airfield Manager approval required if ACN exceeds PCN.

8.1.19.3. (Added-BARKSDALEAFB) Level 2: OG “Acceptable” Transition Airfields

8.1.19.3.1. (Added-BARKSDALEAFB) “Acceptable” Transition Airfields are those that meet the minimum runway dimensions listed in the AFMAN 11-2B-52V3 (and/or have compatible instrument approach procedures) but are not listed in [Table 8.4](#). BARKSDALE.

8.1.19.3.2. (Added-BARKSDALEAFB) Aircrew may request transition at a Level 2 airfield through the SOF or Top 3 prior to stepping on the day of the flight. At a minimum, aircrew must verify their plan (e.g., low approach, touch-and-go, landing) and have verified the information indicated in [Table 8.3](#) (BARKSDALE). Verbal approval from the OG/CC (or designated representative) is required.

8.1.19.4. (Added-BARKSDALEAFB) Level 3: Other Airfields

8.1.19.4.1. (Added-BARKSDALEAFB) “Other Airfields” are those with insufficient runway dimensions (IAW AFMAN 11-2B-52V3) in which aircrew intend on landing (e.g., airshows).

8.1.19.4.2. **(Added-BARKSDALEAFB)** Aircrew requesting to land at a Level 3 airfield require an OG/CC waiver. The waiver package will be briefed and approved through the 21-165 process for the associated flight. The package will include runway and airfield information commensurate with the type of operation being planned and will indicate appropriate familiarity with the strange field. Aircrew should use **Table 8.3**. BARKSDALE as a guide for pertinent briefing information.

8.1.20. **(Added-BARKSDALEAFB) Divert and Recovery Procedures.**

8.1.20.1. **(Added-BARKSDALEAFB)** If weather or Runway Condition Reading (RCR) falls below landing minimums, coordinate through the SOF for alternate availability and OG guidance. See **Table 8.5** for Barksdale divert bases. Crews are expected to proceed to the primary divert base briefed at the step brief unless directed otherwise by the SOF. Notify Barksdale Command Post (CP) of directed divert base including the planned fuel reserve overhead the divert base. After landing, contact the SOF, as well as CP (Comm. 318-456-2151), with the tail number, land time, and aircraft commander's contact information.

Table 8.5. (Added-BARKSDALEAFB) Barksdale Divert Bases.

Divert Base ¹	WITHIN RVSM AIRSPACE						BELOW RVSM AIRSPACE				Longest Runway	Std Hrs M-TH (Z)++
	Enrt Dist	Mag Hdg	Enrt Alt	Mach/ TAS	Enrt Time	Start Fuel	Enrt Alt	Mach/ TAS	Enrt Time	Start Fuel		
Chennault Int'l	140	168					250	.53/320	0+22	32	15/33: 10702 x 200	1100-0300
Little Rock AFB	164	21					250	.52/316	0+34	32.9	07/25: 12000 x 200	24 hours
FT WORTH NAS	191	267					250	.51/315	0+38	34.8	18/36: 12000 x 200	1300-0500
TINKER AFB	255	306	290	.58/350	0+51	37.2	280	.56/335	0+53	37.1	18/36: 11101 x 200	24 hours
Columbus AFB	272	72	290	.58/350	0+55	38.8	270	.57/338	0+57	37.8	13/31C: 12004 x 300	1300-0100
Altus AFB	309	287	290	.58/350	1+02	39.5	280	.57/338	1+04	39.2	17R/35L: 13440 x 150	1530-0830
DYESS AFB	314	260	290	.58/350	1+02	39.5	270	.57/338	1+05	39.5	16/34: 13500 x 300	1200-0600
Whiteman AFB	374	355	310	.63/375	1+12	42.7	280	.57/339	1+17	42	01/19: 12400 x 200	1300-0500
Eglin AFB	385	107	310	.63/375	1+12	42.7	270	.57/338	1+20	42.5	12/30: 11987 x 300	1300-0400
Robins AFB	509	82	410	.74/434	1+23	45.1	270	.56/332	1+49	47.9	15/33: 12001 x 300	1230-0330
Ellsworth AFB	827	319	470	.765/430	2+13	50.4	280	.59/349	2+45	61.3	13/31: 13497 x 300	1400-0730
MINOT AFB	1016	334	470	.765/430	2+39	56.9	280	.63/375	3+07	69.6	11/29: 13198 x 300	1200-0400

Notes:

1. Primary divert bases are listed in bold, all others are secondary.

Assumptions:

Data based on departing KBAD pattern, climbing on course at a climb speed direct to the alternate and arriving over the base with 24,000lbs of fuel. The following criteria were used:

- Flying at cruise altitude and best range cruise mach
- 50 kt headwind
- Climb temperature deviation of +10 degrees
- Time includes time to climb and enroute time
- No performance degradation
- Increase reserves by 10% when flying with HSABs
- Subtract approximately 4,000lbs if diverting from KBAD at FL200

8.1.20.2. **(Added-BARKSDALEAFB)** Shreveport Regional may be used for an emergency divert situation only if conditions do not permit arrival at a suitable divert base with at least 24,000 lbs of fuel. Aircrews diverting to KSHV will notify the Barksdale CP, as well as the SOF, of their intentions as soon as conditions permit. The Barksdale CP will inform the OG/CC and coordinate support for aircraft and crews landing at KSHV.

8.1.20.2.1. **(Added-BARKSDALEAFB)** Crews will land Rwy 32/14 and back taxi to Rwy 24/06. Parking will be on Rwy 24 hammerhead for a single B-52, and the eastern portion of Rwy 24/06 for additional aircraft.

8.1.20.2.2. **(Added-BARKSDALEAFB)** Use extreme caution for raised lighting and obstacles along runway edges. Wing walkers are required.

8.1.21. **(Added-BARKSDALEAFB) Mandatory Calls.**

8.1.21.1. **(Added-BARKSDALEAFB)** Strategic Arms Reduction Treaty (START) Notification

8.1.21.1.1. **(Added-BARKSDALEAFB)** If a sortie recovers at a location other than Barksdale AFB, whether planned or unplanned, the aircrew is required to notify Barksdale CP.

8.1.21.1.2. **(Added-BARKSDALEAFB)** Notify Barksdale CP (Comm. 318-456-2151) within 1 hour of landing and 2 hours before takeoff from any off-station location.

8.1.21.1.3. **(Added-BARKSDALEAFB)** Two hours prior to departing an off station location, obtain SOF approval to launch. Coordinate through the CP to ensure the SOF is notified. This requirement does not apply to sorties that were scheduled through the normal 21- 165 process (e.g., airshow returns and TDY returns) unless operational or maintenance problems occur prior to takeoff which could preclude either a safe completion of the published mission or an on time landing at the planned recovery base (within 1 hour of scheduled time).

8.1.21.1.4. **(Added-BARKSDALEAFB)** Update CP within 30 minutes of departure from any off-station location with an exact takeoff time. Use a phone patch if necessary to ensure time constraints are met.

8.1.21.1.5. **(Added-BARKSDALEAFB)** No report is required if landing at the same airfield from which the aircraft departed.

8.1.21.2. **(Added-BARKSDALEAFB)** Aircrew will notify Top 3, SOF, or CP (as applicable) for any of the following:

8.1.21.2.1. **(Added-BARKSDALEAFB)** Additions and/or deletions from the published flight orders (Top 3 must approve the changes).

8.1.21.2.2. **(Added-BARKSDALEAFB)** Relay exact takeoff time for all local sorties.

8.1.21.2.3. **(Added-BARKSDALEAFB)** Prior to beginning the enroute descent/penetration, relay: fuel remaining at the IAF, aircraft status, and maintenance brevity codes.

8.1.21.2.4. **(Added-BARKSDALEAFB)** Ten minutes from full stop request transportation and parking location.

8.1.22. **(Added-BARKSDALEAFB) Post Mission Paperwork / Debrief.**

8.1.22.1. **(Added-BARKSDALEAFB)** AF Form 4037, OAS Briefing/Debriefing Analysis & Review

8.1.22.1.1. **(Added-BARKSDALEAFB)** AF 4037s will be filled out and submitted with post-mission paperwork for all scored releases. WSOs will fill out the AF 4037 with all planned weapon activity information prior to the sortie. WSOs will complete the remainder of the form with all attempted and actual weapon release data and submit the form with the post mission paperwork. Additionally, WSOs will submit an AF 4037 for abnormalities on simulated weapons sorties as well for tracking and OAS trend data. **[2BW]** The form will be forwarded to 2 OSS/OSK as directed by the Wing Weapons Officer.

8.1.22.1.2. **(Added-BARKSDALEAFB)** WSOs will annotate their current training status in the NWS/FDR block (e.g. UR, CAT II, CMR, MQT). In the REL/LAU METHOD block, annotate the navigation model used during the associated bomb run (e.g., GPS-NAV, DPLR-NAV, NAV).

8.1.22.1.3. **(Added-BARKSDALEAFB)** For all weapons releases, WSOs will provide a detailed explanation of all events leading up to release, regardless of scores, on the reverse side of the form in the crew narrative block (e.g., “GPS INU ground alignment, EGC/EIA, stable platform, good aiming on all offsets, zero FCI deflection at release, 2,000 ft. score).

8.1.22.1.3.1. **(Added-BARKSDALEAFB)** It is recommended that WSOs command CF-65 for all gravity weapon releases in order to capture all applicable data for the AF 4037.

8.1.22.1.4. **(Added-BARKSDALEAFB)** Aborted bomb runs and/or any jettison attempts require detailed explanations of all contributing factors on the reverse side of the AF 4037 in the crew narrative block.

8.1.22.1.5. **(Added-BARKSDALEAFB)** WSOs experiencing maintenance problems which contributed to unreliable weapon scores or training loss/degradation will provide a detailed narrative of all known or suspected equipment malfunctions on the reverse side of the AF 4037 in the maintenance analysis block. During post-flight briefings, WSOs will provide the completed AF 4037 to the maintenance specialist for review and signature in the debriefer signature block.

8.1.22.2. **(Added-BARKSDALEAFB)** AFTO Form 16, B-52 Aircraft Structural Assessment Data (Blue Dot). Ensure that Blue Dot information is input into Mx computer prior to departing Mx debrief.

8.1.22.3. **(Added-BARKSDALEAFB) [2 BW]** Daily Flying Effectiveness (DFE). The DFE forms will be used to document the training and combat effectiveness for the overall sortie and will be accomplished following every flight. Communication Effectiveness Worksheets will be filled out for every sortie and included with the DFE. All communication system malfunctions require an explanation and will include the fault(s) experienced on specific equipment and any troubleshooting/corrective actions attempted.

8.1.22.4. **(Added-BARKSDALEAFB)** Weather Feedback. If needed, aircrew will complete the 2 OSS weather feedback form and submit to 2 OSS/OSW upon landing via 2oss.weather@us.af.mil or verbally via (318) 456-3136. Feedback forms are available outside 2 OSS/OSW or on 2 OSS/OSW Sharepoint.

8.1.23. (Added-BARKSDALEAFB) Crew Responsibilities.

8.1.23.1. **(Added-BARKSDALEAFB) [2 BW]** Any changes to the crew lineup after the 21-165 meeting will be approved by the SQ/DO (or designated representative) and annotated in Patriot Excalibur (PEX).

8.1.23.2. **(Added-BARKSDALEAFB) [307 BW (49th/340th Exempt)]**. For all weapons releases, crews must have 93 BS Scheduling approval to change employment range.

8.1.24. (Added-BARKSDALEAFB) Actual Weapon Releases.

8.1.24.1. **(Added-BARKSDALEAFB)** For weapon malfunctions or abnormalities, notify the SOF as soon as practical. Reference **Attachment 8** for clarifying guidance during attempted weapon releases. If appropriate, the SOF should contact a qualified Weapons Officer to determine if the situation warrants further investigation.

8.1.24.2. (Added-BARKSDALEAFB) Ground Weapons Checks (GWCs)

8.1.24.2.1. **(Added-BARKSDALEAFB)** GWCs are required for returning aircraft with retained and/or hung weapon, unless release of all weapons is verified IAW AFMAN 11- 2B-52V3 **para. 6.6** (reference **Attachment 8** for additional clarification).

8.1.24.2.2. **(Added-BARKSDALEAFB)** The SOF will coordinate with CP 30 minutes prior to scheduled land time to verify proper personnel are in place for GWCs.

8.1.24.2.3. **(Added-BARKSDALEAFB)** The primary location for all GWCs is the north or south (rollout) hammerhead.

8.1.24.2.4. **(Added-BARKSDALEAFB)** Once clear of the active runway, pull into the rollout hammerhead, place the radar in standby, set the parking brake, monitor UHF 311.0, and wait for the ground weapons check team to chock the aircraft and establish ground communication. Weapons personnel will then visually inspect the aircraft. DO NOT open bomb bay doors if internal weapons were carried.

8.1.24.2.5. **(Added-BARKSDALEAFB)** If the weapons team chief discovers a hung/unsecure weapon (or other unsafe condition), the crew chief will inform the aircraft commander. The aircraft commander will shut down the aircraft, and a ground emergency will be declared.

- 8.1.24.2.6. **(Added-BARKSDALEAFB)** If the weapons were released (aircraft is clean) or the retained weapons are secure, the crew chief will inform the aircraft commander the aircraft is safe to taxi back to parking. Once personnel are clear of the aircraft, taxi to park. If internal weapons were carried, leave the bomb bay doors closed.
- 8.1.24.3. **(Added-BARKSDALEAFB)** Hung Weapons Procedures
- 8.1.24.3.1. **(Added-BARKSDALEAFB)** Sorties returning with hung weapons will notify CP as soon as possible. Aircrew will provide the following information: number, type, and location of hung weapon(s).
- 8.1.24.3.2. **(Added-BARKSDALEAFB)** Conditions permitting, the preferred landing direction for aircraft with hung weapons is RWY 33.
- 8.1.24.3.3. **(Added-BARKSDALEAFB)** In the event multiple aircraft are landing that require GWCs, the second aircraft should delay landing until determining the status of the previous aircraft. Subsequent aircraft will follow directions provided by the SOF.
- 8.1.24.4. **(Added-BARKSDALEAFB)** Retained Weapons Procedures
- 8.1.24.4.1. **(Added-BARKSDALEAFB)** Sorties returning with retained weapons will inform CP and SOF upon returning to the local area. Declaring an emergency is not required.
- 8.1.24.4.2. **(Added-BARKSDALEAFB)** After engine shutdown and before applying external power, weapons personnel will meet the aircraft to pin the weapons. Do not allow any personnel to enter the bomb bay when power is applied to the aircraft unless bomb bay door actuator struts have been disconnected. If diverting from BAFB, aircrew may have to pin and confirm that weapons are safe.
- 8.1.24.5. **(Added-BARKSDALEAFB)** “Recovery” as mentioned in AFMAN 11-2B-52v3 [para 6.5.7](#) refers to the post-landing phase (taxi to final parking) and is a ground-only restriction.
- 8.1.25. **(Added-BARKSDALEAFB)** Runway Sweeps.
- 8.1.25.1. **(Added-BARKSDALEAFB)** Runway sweeps are required for all aircraft returning with a hung weapon status. Aircrew will notify the SOF 30 minutes prior to landing to allow personnel to preposition for the runway sweep.
- 8.1.26. **(Added-BARKSDALEAFB)** In-Flight Emergencies (IFE).
- 8.1.26.1. **(Added-BARKSDALEAFB)** Aircrew will notify the SOF of an impending IFE by the most expeditious means to include BLOS relay.
- 8.1.26.2. **(Added-BARKSDALEAFB)** If deemed appropriate or necessary by the aircraft commander, crews can coordinate with the SOF for Duty IP (DIP) assistance for safe recovery of the aircraft. DIP can be reached on 379.4 MHz.
- 8.1.26.2.1. **(Added-BARKSDALEAFB)** When asked to assist the crew, the DIP will help ensure all appropriate actions are complete, provide landing data, verify relevant data with the emergency crew, as well as review and assist with the recovery.
- 8.1.26.3. **(Added-BARKSDALEAFB)** Aircrew will notify the SOF that the IFE has been declared.

- 8.1.26.4. **(Added-BARKSDALEAFB)** The SOF will notify the OG/CC IAW SOF checklist procedures.
- 8.1.26.5. **(Added-BARKSDALEAFB)** Aircraft commanders are the final authority for decisions affecting the safety of the aircraft.
- 8.1.26.6. **(Added-BARKSDALEAFB)** IFE Termination. The Fire Chief (CHIEF 2) is the IFE termination authority.
- 8.1.26.7. **(Added-BARKSDALEAFB)** Physiological Events. Any time the mission is interrupted by a known or suspected medical condition affecting any crew member, the aircrew will declare a Physiological Incident with CP as soon as practical, and accomplish the following prior to penetration for landing:
- 8.1.26.7.1. **(Added-BARKSDALEAFB)** Inform CP of the nature of the incident and pass on all requested information.
 - 8.1.26.7.2. **(Added-BARKSDALEAFB)** Contact the SOF and DIP and advise them of specific assistance required upon landing (e.g. flight surgeon at hammerhead or maintenance at parking).
- 8.1.26.8. **(Added-BARKSDALEAFB)** Potential Lasing Incidents. If aircrew encounter potential lasing incidents, they will take the following actions:
- 8.1.26.8.1. **(Added-BARKSDALEAFB)** Don ALEPs (P/CP/IP).
 - 8.1.26.8.2. **(Added-BARKSDALEAFB)** If possible, locate the point-of-origin using the ATP and note the time, location, aircraft parameters, laser color, and any additional pertinent information (consider using CF-65 “Bookmark” procedures IAW AFTTP 3-3. B-52).
 - 8.1.26.8.3. **(Added-BARKSDALEAFB)** Notify ATC and the 2 BW SOF. If appropriate, obtain an amended clearance from ATC to deviate route of flight.
 - 8.1.26.8.4. **(Added-BARKSDALEAFB)** If potential eye injury has occurred, declare a “medical emergency” with ATC.
 - 8.1.26.8.5. **(Added-BARKSDALEAFB)** Regardless of your presumed physiological state, land as soon as practicable (as defined in T.O. 1B-52H-1). The on-call flight surgeon may elect to meet crews in the rollout hammerhead if landing at KBAD.
 - 8.1.26.8.6. **(Added-BARKSDALEAFB)** Notify 2 BW CP no later than engine shutdown.
 - 8.1.26.8.7. **(Added-BARKSDALEAFB)** After landing, submit a 2 BW/SE IFE/Unusual Activity Worksheet and complete the FAA Laser Beam Exposure Questionnaire, available at <https://www.faa.gov/go/laserinfo> and forward to laserreports@faa.gov.
- 8.1.26.9. **(Added-BARKSDALEAFB)** Antiskid Malfunctions
- 8.1.26.9.1. **(Added-BARKSDALEAFB)** Aircraft with antiskid malfunction will not perform taxi-back or touch-and-go landings.

- 8.1.26.9.2. **(Added-BARKSDALEAFB)** Plan to land using the drag chute at a gross weight of less than 250,000 lbs. on a wet runway, or 290,000 lbs. on a dry runway. If a landing is required above this gross weight, the landing weight should be calculated to allow minimum braking for the available runway. Use the entire runway to slow the aircraft.
- 8.1.26.9.3. **(Added-BARKSDALEAFB)** Aircrew will not taxi beyond the hammerhead until brakes are inspected.
- 8.1.26.10. **(Added-BARKSDALEAFB)** Hot Brakes
- 8.1.26.10.1. **(Added-BARKSDALEAFB)** If computed Brake Energy in the Caution or Danger Zone IAW T.O. 1B-52H-1, Flight Manual, aircrew will accomplish the following:
- 8.1.26.10.1.1. **(Added-BARKSDALEAFB)** Notify Ground or Tower of location and declare a ground emergency for hot brakes.
- 8.1.26.10.1.2. **(Added-BARKSDALEAFB)** If able, park on the closest hammerhead (i.e., designated KBAD Hot Brakes area). Do not undertake a lengthy taxi to the Hot Brakes area if it will unduly delay required actions.
- 8.1.26.10.1.3. **(Added-BARKSDALEAFB)** If able, park in an area with no personnel or aircraft within 300 feet of the affected brakes. Debris from an exploding tire will normally travel outboard in relation to the aircraft.
- 8.1.26.10.1.4. **(Added-BARKSDALEAFB)** Set the parking brake. Maintenance will release the brakes after chocks are installed to aid cooling.
- 8.1.26.10.1.5. **(Added-BARKSDALEAFB)** Evacuate the aircraft, avoiding responding vehicles.
- 8.1.26.10.1.6. **(Added-BARKSDALEAFB)** Calculate brake energy to provide to maintenance personnel.
- 8.1.26.10.1.7. **(Added-BARKSDALEAFB)** Enter the computed brake energy in the AFTO Form 781A, Maintenance Discrepancy and Work Document.
- 8.1.26.10.2. **(Added-BARKSDALEAFB)** Visual report of hot brakes:
- 8.1.26.10.2.1. **(Added-BARKSDALEAFB)** Stop/park the aircraft at the closest location clear of taxi routes and congested areas.
- 8.1.26.10.2.2. **(Added-BARKSDALEAFB)** Set the parking brake. Maintenance will release the brakes after chocks are installed to aid cooling.
- 8.1.26.10.2.3. **(Added-BARKSDALEAFB)** Notify Ground of location and declare a ground emergency for hot brakes.
- 8.1.26.10.2.4. **(Added-BARKSDALEAFB)** If brakes are confirmed hot by ground personnel, evacuate the aircraft, avoid responding vehicles and notify maintenance and fire department of current status.
- 8.1.26.11. **(Added-BARKSDALEAFB)** Stuck Outboard Strut Bleed Valves

- 8.1.26.11.1. **(Added-BARKSDALEAFB)** Before Takeoff. ACs may elect to start engines 1 & 2 or 7 & 8 with an air cart so long as fire coverage is coordinated through SOF to maintain a one-minute response time from engine start until takeoff.
- 8.1.26.11.2. **(Added-BARKSDALEAFB)** After Landing. Immediately shut down the affected outboard engines in the hammerhead IAW T.O. 1B-52H-1.
- 8.1.26.12. **(Added-BARKSDALEAFB)** Bird Strike/Lightning Strike/Static Discharge. Aircrew will terminate the mission. Follow T.O. 1B-52H-1 procedures for structural damage. If available (and IAW T.O. 1B-52H-1), aircrew should request a chase ship and perform a controllability check in the Caddo ATCAA.
- 8.1.26.13. **(Added-BARKSDALEAFB)** Controlled Bailout. If the aircraft commander deems the aircraft unsafe to attempt landing, the controlled bailout area is between the BAD TACAN 152°R/049 and 152°R/052 DME on a 152° heading. If possible, the crew should attempt the following techniques:
- 8.1.26.13.1. **(Added-BARKSDALEAFB)** Advise the SOF and ATC, maintain 8,000 MSL with the Autopilot – ALTITUDE HOLD, and decelerate to the minimum practical airspeed (consider stabilizing at the “Minimum Recommended Airspeed” [reference the “Minimum Speeds – Low Altitude” chart in the T.O 1B-52H-1-1]) for the current aircraft configuration, but do not decelerate below 120 KIAS.
- 8.1.26.13.2. **(Added-BARKSDALEAFB)** After bailout of all other crewmembers, the pilots should set the throttles to idle, disengage the “Pitch Engage” and “Altitude Hold” functions of the autopilot (leaving only Roll Engage – ON) and depart the aircraft.
- 8.1.27. **(Added-BARKSDALEAFB) Adverse Weather Operations.**
- 8.1.27.1. **(Added-BARKSDALEAFB) Thermal Stress Conditions (IAW Attachment 9)**
- 8.1.27.1.1. **(Added-BARKSDALEAFB) [2 BW]** Top 3 will coordinate with 2 OSS/OSW to determine the highest likely Index of Thermal Stress (ITS) value. If the heat condition is predicted to be in the Caution (Yellow) or Danger (Red) Zone, the Top 3 will coordinate with maintenance for an operational air-conditioning cart to be positioned at each of the aircraft on the flying schedule.
- 8.1.27.1.2. **(Added-BARKSDALEAFB)** When the Thermal Stress condition is in the Caution Zone, aircrew are limited to 90 minutes of ground activity (preflight and ground standby) without air-conditioning. Confirm no crewmembers are suffering from symptoms of heat stress throughout ground activity. Aircrew will inform Top 3 of changes in their mission’s status.
- 8.1.27.1.3. **(Added-BARKSDALEAFB)** When the Thermal Stress condition is in the Danger Zone, aircrew are limited to 45 minutes of ground activity (preflight and ground standby) without air-conditioning. Confirm no crewmembers are suffering from symptoms of heat stress throughout the ground activity. Aircrew will inform Top 3 of changes in their mission’s status.
- 8.1.27.2. **(Added-BARKSDALEAFB) Thunderstorms in the Local Flying Area**

- 8.1.27.2.1. **(Added-BARKSDALEAFB)** Lightning Watch: A potential exists for lightning within 5 NM of the base within the next 30 minutes. A lightning watch does not require evacuation of the ramp, but maintenance will begin preparing their equipment to ensure they can evacuate in case a Lightning Warning is announced.
- 8.1.27.2.2. **(Added-BARKSDALEAFB)** Lightning Warning: Lightning has been observed within 5 NM of the base. Aircrew should evacuate the ramp with maintenance or remain in the aircraft with all hatches and windows closed (it is not necessary to ground the aircraft with grounding wires). If persistent lightning is expected for an extended duration, crews may shut down engines.
- 8.1.27.2.2.1. **(Added-BARKSDALEAFB)** A Lightning Warning does not preclude an aircraft from landing or taxiing with OG/CC approval, but maintenance personnel will not be available until the Warning has been lifted.
- 8.1.27.2.3. **(Added-BARKSDALEAFB)** [2 BW] Aircrew requesting SOF approval for approaches or departures will ask no more than 5 minutes prior to the event.
- 8.1.27.3. **(Added-BARKSDALEAFB)** Operations in Marginal Weather
- 8.1.27.3.1. **(Added-BARKSDALEAFB)** If the ceiling is below 1,000 feet or visibility is less than 3 miles, aircrew should plan to land prior to reaching divert fuel for the designated alternate.
- 8.1.27.3.2. **(Added-BARKSDALEAFB)** If the ceiling is below 500 feet or visibility less than 1-mile, multiple approaches require OG/CC approval.
- 8.1.28. **(Added-BARKSDALEAFB)** Bird Hazards.
- 8.1.28.1. **(Added-BARKSDALEAFB)** Squadrons will not schedule takeoffs, landings, or multiple approaches within ± 1 hour of sunrise and sunset. Any unscheduled transition during this time requires OG/CC approval.
- 8.1.28.2. **(Added-BARKSDALEAFB)** Phase II Operations. Refer to BAFBI 91-212 for current guidance. 2 BW/SEF will assess BASH risks and advise aircrew of BASH Phase II operations via Notice to Airmen (NOTAM).
- 8.1.28.2.1. **(Added-BARKSDALEAFB)** [2 BW] Sorties scheduled to conduct multiple approaches at any airfield in Phase II of bird activity will be annotated in PEX and gain approval through the 21-165 process. After the 21-165 process, added night transition training at Barksdale during Phase II requires OG/CC approval.
- 8.1.28.3. **(Added-BARKSDALEAFB)** Pattern restrictions
- 8.1.28.3.1. **(Added-BARKSDALEAFB)** Barksdale AFB Bird Watch Condition (BWC) restrictions apply to all 2 BW/307 BW aircraft, regardless of where transition training is conducted. Prior to step, aircrew will utilize all available Aviation Hazard Advisory System (AHAS)/ BASH tools to determine bird status along the entire route of flight and all transition locations.
- 8.1.28.3.2. **(Added-BARKSDALEAFB)** BWC LOW. No restrictions.

- 8.1.28.3.3. **(Added-BARKSDALEAFB)** BWC MODERATE. SOF approval is required for all pattern activity other than full stop landings or initial takeoff. Aircrew may hold at an altitude above the observed bird activity.
- 8.1.28.3.4. **(Added-BARKSDALEAFB)** BWC SEVERE. Barksdale AFB aircraft will not be operated in any areas where BWC is SEVERE. Transition is prohibited. Takeoffs and full stop landings require OG/CC approval.
- 8.1.28.3.5. **(Added-BARKSDALEAFB)** Aircrew observing potentially hazardous bird activity should pass the following information to Barksdale Tower:
- 8.1.28.3.5.1. **(Added-BARKSDALEAFB)** Location and altitude of birds.
 - 8.1.28.3.5.2. **(Added-BARKSDALEAFB)** Time of sighting.
 - 8.1.28.3.5.3. **(Added-BARKSDALEAFB)** Approximate number/type of birds.
 - 8.1.28.3.5.4. **(Added-BARKSDALEAFB)** Type of activity (soaring, flying to/from a specific location).
 - 8.1.28.3.5.5. **(Added-BARKSDALEAFB)** Bird watch condition recommendation.
- 8.1.28.4. **(Added-BARKSDALEAFB)** Low altitude restrictions:
- 8.1.28.4.1. **(Added-BARKSDALEAFB)** Review all applicable Bird Avoidance Model (BAM) and AHAS data. If BAM predicts “Moderate” conditions for the training area, aircrew should contact the site or RCO for recent bird trends and check the actual BWC. If AHAS or actual BWC confirms “Moderate” (or greater) conditions, aircrew will not conduct training without OG/CC approval.
 - 8.1.28.4.2. **(Added-BARKSDALEAFB)** Crews will not be scheduled to conduct training in areas with a BAM forecast of SEVERE.
- 8.1.29. **(Added-BARKSDALEAFB)** **Sortie Types.**
- 8.1.29.1. **(Added-BARKSDALEAFB)** Mission Plan-Fly (MP-F). Sorties in which aircrew generate all mission materials and conduct appropriate briefings on mission planning day. Missions requiring MP-F include upgrade sorties, formal syllabus sorties, and sorties with actual weapons releases.
 - 8.1.29.2. **(Added-BARKSDALEAFB)** Show and Go-Mission Planning Cell (SNG-MPC). Sorties in which a mission planning cell (MPC) generates all mission materials to include a Pre-Takeoff Briefing (PTOB). After the PTOB, aircrew will conduct all other necessary briefings and execute the mission. These sorties are intended to be flown by mission qualified crewmembers, and the focus will be on employing tactics that maximize an aircrew’s combat capabilities and capacity.
 - 8.1.29.3. **(Added-BARKSDALEAFB)** Show and Go-Off-the-Shelf (SNG-OTS). Sorties in which aircrew will utilize unit provided mission materials, conduct appropriate briefings, and execute the mission within the same day.

8.1.29.4. **(Added-BARKSDALEAFB)** Engine Running Crew Change (ERCC). ERCC sorties are a variant of the Show and Go format. Normally, an ERCC input sortie will be scheduled to land IAW the flight manual taxi-back procedures. If taxi-back limitations cannot be complied with (e.g., wet runway, over 270,000 GW) then the aircrew will coordinate with the Top 3 in consultation with the flight line maintenance supervisor to determine the status of the sortie. The ERCC may cancel under these circumstances. See [Attachment 6](#) for further guidance.

8.1.29.5. **(Added-BARKSDALEAFB)** Quick Turn. Quick Turn sorties are designed to minimize the generation time between sorties using the same aircraft. The planned time between sorties will be no less than 4 hours unless coordinated with maintenance. Both crews should use normal shutdown and preflight checklists and the input crew is not responsible for providing any paperwork or tapes to the output crew.

8.1.29.6. **(Added-BARKSDALEAFB)** Cold Pit. Cold Pit Sorties are designed to generate additional sorties with the same aircraft. Cold pit sorties are a variant of MP-Fly sorties which utilize ERCC restrictions. If taxi-back limitations cannot be complied with (wet runway or greater than 270,000 GW), then the drag chute is deployed, which elongates the nominal timeline. Both crews should utilize normal shutdown and preflight checklists, and the input crew is not responsible for providing any tapes or products to the output crew. See [Attachment 7](#) for further guidance.

8.1.30. **(Added-BARKSDALEAFB)** Functional Check Flights (FCF) and Operational Check Flights (OCF) Missions.

8.1.30.1. **(Added-BARKSDALEAFB)** FCF/OCF missions will be conducted IAW T.O. 1B-52H-6CF- 1, Acceptance and/or Functional Check Flight Procedures, T.O. 1-1-300, Maintenance Operational Checks and Check Flights, AFI 11-418, AFI 21-101_AFGSCSSUP, and AFI 21- 101_BARKSDALESUP_I.

8.1.30.2. **(Added-BARKSDALEAFB)** The FCF/OCF Program Manager (OG/OGV) is the OPR. Quality Assurance (QA) will brief the crew, and the OG/CC will approve the FCF/OCF sortie through the 21-265 process. A certification letter will appoint aircrew (normally comprised of OGV members) to fly a specific aircraft to determine if a malfunction has been corrected.

8.1.31. **(Added-BARKSDALEAFB) Classified Local Electronic Warfare Mission Guides.** See Electronic Attack Mission Guide (EAMG) and Electronic Warfare Information File (EWIF) for local guidance.

MARK D. KELLY, Lt Gen, USAF
Deputy Chief of Staff, Operations

(BARKSDALEAFB)

CHRIS G. CAIN, Colonel, USAF
2d Bomb Wing Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

(Added-BARKSDALEAFB) BAFBI 11-250, *Airfield Operations and Base Flying Procedures*, 11 May 18

JO 7610.4U, *Special Operations*, 1 September 2017

CJCSM 3212.02., *Performing Electronic Attack in the United States and Canada for Tests, Training and Exercises*, 31 December 2013

(Added-BARKSDALEAFB) AFGSCI 11-270, *Electronic Flight Bag Operations*, IC, 30 Aug 21

(Added-BARKSDALEAFB) AFI 11-202 Vol 3_AFGSCSUP, *General Flight Rules*, 10 Jan 22

(Added-BARKSDALEAFB) AFI 11-214, *Air Operations Rules and Procedures*, 29 Nov 22

(Added-BARKSDALEAFB) AFI 11-215, *USAF Flight Manuals Program*, 25 Mar 19

(Added-BARKSDALEAFB) AFI 11-301 Vol 1, *Aircrew Life Support Program*, 23 Oct 23

(Added-BARKSDALEAFB) AFI 11-418, *Operations Supervision*, IC, 3 Aug 23

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(Added-BARKSDALEAFB) AFI 13-212 Vol 1, *Range Planning and Operations*, 14 Mar 23

(Added-BARKSDALEAFB) AFI 21-101, *Aircraft and Equipment Maintenance Management*, 3 Nov 23

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AFPD 11-4, *Aviation Service*, 1 September 2004

AFI 11-214, *Air Operations Rules and Procedures*, 14 August 2012

AFI 33-360, *Publications and Forms Management*, 1 December 2015

AFMAN 11-202 V3, *General Flight Rules*, 10 August 2016

AFMAN 11-2B-52 V1, *B-52 Aircrew Training*, 6 November 2015

AFPAM 11-216, *Air Navigation*, 28 February 2018

AFGSCI 13-520-S V2, *Bomber Nuclear Mission Preparation*, 19 August 2018

AFI 11-202 Volume 3, *General Flight Rules*, 2 October 2018

(Added-BARKSDALEAFB) AFTTP 3-1. *B-52, B-52 Tactical Employment*, 2 Aug 19

(Added-BARKSDALEAFB) AFTTP 3-1. *Shot/Kill, Tactical Employment*, Ch 1, 22 Mar 19

(Added-BARKSDALEAFB) AFTTP 3-3. *B-52, B-52 Combat Aircraft Fundamentals*, 2 Aug 19

AFTTP 3-3.B52. *Combat Aircraft Fundamentals*, 7 December 2016

(Added-BARKSDALEAFB) T.O. 1-1-300, *Maintenance Operational Checks and Check Flights*, 15 Mar 12

(Added-BARKSDALEAFB) T.O. 1B-52H-6CF-1, *Acceptance and/or Functional Check Flight Procedures*, Ch 3, 15 Jan 17

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

(Added-BARKSDALEAFB) AFTO Form 16, *B-52 Aircraft Structural Assessment Data*

(Added-BARKSDALEAFB) AFTO Form 781A, *Maintenance Discrepancy and Work Document*

(Added-BARKSDALEAFB) AFTO Form 781H, *Aerospace Vehicle Flight Status and Maintenance*

DD Form 1801, *International Flight Plan*

(Added-BARKSDALEAFB) DD Form 365-4, *Weight and Balance Clearance Form F*

Abbreviations and Acronyms

(Added-BARKSDALEAFB) **2 OSS/OSK**—2d Operation Support Squadron Current Operations Flight

(Added-BARKSDALEAFB) **2 OSS/OSW**—2d Operation Support Squadron Weather Flight

(Added-BARKSDALEAFB) **ADS-B**—Automatic Dependent Surveillance - Broadcast AFMAN – Air Force Manual

(Added-BARKSDALEAFB) **AFRIMS**—Air Force Records Information Management System

AFTTP—Air Force Tactics, Techniques, and Procedures

ADI—Attitude Direction Indicator

(Added-BARKSDALEAFB) **AGE**—Auxiliary Ground Equipment AHAS – Avian Hazard Advisory System

AGL—Above Ground Level

AHRS—Attitude and Heading Reference System

AIU—Armament Interface Unit

(Added-BARKSDALEAFB) ALEP—Aircrew Laser Eye Protection ANG – Air National Guard

ARDA—Airborne Radar Directed Approach

ASL—Above Sea Level

ALTRV—Altitude Reservation

AOC—Air Operations Center

ARTCC—Air Route Traffic Control Centers

ATC—Air Traffic Control

(Added-BARKSDALEAFB) ATC—Air Traffic Control BAM – Bird Avoidance Model

ATD—Aircrew Training Device

ATO—Air Tasking Order

BAM—Bird Avoidance Model

(Added-BARKSDALEAFB) BASH—Bird Aircraft Strike Hazard

(Added-BARKSDALEAFB) BLOS—Beyond Line of Sight

(Added-BARKSDALEAFB) BWC—Bird Watch Condition

(Added-BARKSDALEAFB) CFIC—Combat Flight Instructor Course

CHUM—Chart Update Manual

(Added-BARKSDALEAFB) CONECT—Combat Network Communications Technology

(Added-BARKSDALEAFB) CONUS—Contiguous United States

(Added-BARKSDALEAFB) CP—Command Post

CRL—Conventional Rotary Launcher

CSRL—Cruise Missile Rotary Launcher

DAFIF—Digital Aeronautical Flight Information File

DBRIC—Digital Bomb Release Interval Controller

(Added-BARKSDALEAFB) DFE—Daily Flying Effectiveness

DH—Decision Height

(Added-BARKSDALEAFB) DIP—Duty Instructor Pilot

(Added-BARKSDALEAFB) EFB—Electronic Flight Bag

EMCON—Emission Control

(Added-BARKSDALEAFB) EOR—End of Runway

(Added-BARKSDALEAFB) ERCC—Engine Running Crew Change

EWO—Electronic Warfare Officer

EXORD—Execution Order
FAC—Forward Air Controller
FAAH—Federal Aviation Administration Handbook
FAF—Final Approach Fix
(Added-BARKSDALEAFB) FCF—Functional Check Flight
(Added-BARKSDALEAFB) FCI—Flight Command Indicator
FIC—Flight Instructor Course
FIE—Fighter Intercept Exercise
FLIP—Flight Information Program
(Added-BARKSDALEAFB) GW—Gross Weight
(Added-BARKSDALEAFB) GWC—Ground Weapon Check
HAT—Height Above Touchdown
HE—High Explosive
HHD—Higher Headquarters Directed
HF—High Frequency
IAF—Initial Approach Fix
IAW—In Accordance With
IFF—Identification Friend or Foe
IFE—Inflight Emergency
INU—Inertial Navigation Unit
IMC—Instrument Meteorological Conditions
INS—Inertial Navigation System
IP—Instructor Pilot
IR—IFR Military Training Route
(Added-BARKSDALEAFB) ITS—Index of Thermal Stress
JTAC—Joint Tactical Air Controller
(Added-BARKSDALEAFB) KBAD—Barksdale AFB
(Added-BARKSDALEAFB) KSHV—Shreveport Regional Airport
LOWAT—Low Altitude
(Added-BARKSDALEAFB) LOWAT—Low Altitude Training
MALD—Miniature Air Launched Decoy
MARSA—Military Assumes Responsibility for Separation of Aircraft

MAP—Missed Approach Point

MDA—Minimum Descent Altitude

MFD—Multi-Functional Display

MIU—Missile Interface Unit

MPC—Mission Planning Cell

(Added-BARKSDALEAFB) MP-F—Mission Plan – Fly Sortie

MSA—Minimum Sector Altitude

MTR—Military Training Route

(Added-BARKSDALEAFB) Mx—Maintenance

(Added-BARKSDALEAFB) NAOC—National Airborne Operations Center

NM—Nautical Miles

(Added-BARKSDALEAFB) NOTAM—Notice to Airmen

NVG—Night Vision Goggles

OAS—Offensive Avionics System

(Added-BARKSDALEAFB) OCF—Operational Check Flight

(Added-BARKSDALEAFB) OCONUS—Outside the Contiguous United States

(Added-BARKSDALEAFB) ODO—Opposite Direction Operations

(Added-BARKSDALEAFB) OG/OGV—Operations Group Standardizations and Evaluations

ORM—Operational Risk Management

OPR—Office of Primary Responsibility

ORI—Operational Readiness Inspection

(Added-BARKSDALEAFB) PEX—Patriot Excalibur

PTOB—Pre-Takeoff Brief

(Added-BARKSDALEAFB) PTOB—Pre-Takeoff Briefing

(Added-BARKSDALEAFB) QA—Quality Assurance

RCD—Release Circuits Disconnect

RCR—Runway Condition Reading

RCO—Range Control Officer

(Added-BARKSDALEAFB) RDS—Records Disposition Schedule

RIU—Radar Interface Unit

RN—Radar Navigator

RNAV—Area Navigation

RNP—Required Navigation Performance

(Added-BARKSDALEAFB) RSD—Removable Storage Device

SMO—Stores Management Overlay

(Added-BARKSDALEAFB) SNG-MPC—Show-and-Go- Mission Planning Cell Sortie

(Added-BARKSDALEAFB) SNG-OTS—Show-and-Go – Off the Shelf Sortie

SOF—Supervisor of Flying

SPINS—Special Instructions

(Added-BARKSDALEAFB) SQ/DO—Squadron Director of Operations

(Added-BARKSDALEAFB) START—Strategic Arms Reduction Treaty

TDZ—Touchdown Zone

TERPs—Terminal Instrument Procedures

TGP—Targeting Pod

UHF—Ultra High Frequency

VASI—Visual Approach Slope Indicator

VFR—Visual Flight Rules

VMC—Visual Meteorological Conditions

VR—VFR Military Training Route

WIU—Weapons Interface Unit

WSO—Weapons System Operator

(Added-BARKSDALEAFB) WSO—Weapons System Officer

WST—Weapon System Trainer

(Added-BARKSDALEAFB) WST—Weapons System Trainer

Terms

Air Traffic Control—The agency or agencies providing flight services and control for aircraft operations. This includes FAA authorities in the US, equivalent international agencies, and tactical control agencies (AWACS, etc) that provide clearances, separation, advisories, etc. If foreign or tactical equivalents do not provide services in a given area, requirements to coordinate with ATC are lifted and aircrew may continue IAW sound ORM.

Attempted Release—Aircrew have properly configured for release (or jettison) and the bombing system has issued a release pulse or command.

Critical Phases of Flight—See AFI 11-202 Vol 3.

Mission Employment Area—Areas used to conduct training in weapons employment, tactics, low altitude navigation, threat avoidance, intercepts, and other areas directly related to B-52 employment. These areas include, but are not limited to, IR and VR routes, MOAs, ranges, and Restricted/Warning Areas.

Range Control Officer (RCO)—RCO or other range control personnel qualified to issue release clearance, confirm weapon release, or authorize use of jettison/salvo areas.

Route Width (Route Perimeter)—the route boundary limits within which aircraft are restricted to conduct operations.

Safe Clearance Altitude (SCA)—A minimum ‘hard’ MSL altitude for low-level operations, determined by applying the appropriate buffer to terrain/obstacles encountered on a route or area segment, flown by reference to the altimeter; as opposed to flying by TA procedures or attempting to hold an AGL altitude via the radar altimeter.

Attachment 2

LOW-LEVEL OPERATIONS ON MILITARY TRAINING ROUTES

A2.1. General. The guidance below is additive to the guidance given in **Chapter 3** and addresses procedures and restrictions specific to fly low-level routes defined by FLIP AP1/B (MTRs/IRs/VRs). MTRs may be IFR routes (denoted by IR and a four digit identifier) or Visual (denoted by VR and a three digit identifier). Crews will reference this attachment prior to flying such routes. (T-3).

A2.1.1. Altitude. IR routes are designed to be flown under IFR regardless of weather and all route segments are 1,500 AGL or above. VR have segments from the surface to 1500 AGL. B-52 Safe Clearance Altitudes (SCA), regardless of operating on an IR or VR, will be at least 1000 feet above (2000 in mountainous terrain as defined by the FAA in domestic airspace, host nation, or special instructions) the highest elevation or obstacle within 4 NM of the planned route, or the minimum altitude defined by the MTR, whichever is higher.

A2.1.2. B-52 crews will fly Military Training Routes at 360 knots ground speed unless mission requirements dictate otherwise. (T-3).

A2.2. Communications.

A2.2.1. Prior to entering an IFR Military Training Route (IR), confirm with ARTCC the entry and exit fix time, the requested altitude after exiting, and if applicable, the number of reentries. (T-3).

A2.2.2. Refer to Flight Information Publication (FLIP) AP/1B, *Area Planning - Military Training Routes*, for communications procedures on VFR Routes (VRs).

A2.2.3. During low-level, monitor Flight Service Station (FSS) for Significant Meteorological Information (SIGMET) and Airmen Meteorological Information (AIRMET) advisories at all times except at reporting/monitoring points, on the bomb run, when in contact with ARTCC, or when inflight priorities dictate otherwise. (T-3).

A2.2.4. Communications Failure on an IR Route. When flying a route without a published communications failure altitude, file the communications failure altitude in the remarks section of the DD Form 1801 and confirm with ATC prior to entry. (T-3).

A2.3. Weather Requirements.

A2.3.1. Visibility/Cloud Clearance Requirements. Abort the low-level route if unable to maintain FLIP AP-1B weather minima for the route. (T-0).

A2.3.2. Obtain updated weather within 30 minutes of route entry. (T-3).

A2.3.3. Use all available information to evaluate the possibility of encountering mountain wave effects. If it appears mountain wave effects could be encountered, climb to Minimum Safe Altitude (MSA) or IFR altitude early enough to avoid the effects. If mountain wave effects are encountered at any altitude, abort the area. (T-3).

A2.3.4. Aircrew will abort the low-level when notified of route/area closure if they have not passed the area of hazardous weather or flight conditions. If the aircrew is advised the route is closed after passing through the area of hazardous weather, the decision to continue or abort rests with the crew. Aircrews aborting a mission employment area due to hazardous weather or flight conditions should advise the home station command post and provide a Pilot Report (PIREP) of observed conditions. (T-3).

A2.4. Negative Altitude Variations. Aircrews will use altitude variations from PMSV (or compute using PMSV altimeter settings and D values) to determine which route segments are affected by excessive altitude variations. This information should be obtained as close as possible to the planned entry time. Crews unable to contact a PMSV station may enter using information from the preflight weather briefing.

A2.4.1. If any of the following situations occur during Instrument Meteorological Conditions (IMC) or at night, and the crew is unable to clear terrain visually, abort the route (NVGs may be used to clear terrain visually during night Visual Meteorological Conditions (VMC)):

A2.4.1.1. The difference between aircraft pressure altitude as indicated with the most current altimeter setting and the Offensive Avionics System (OAS)/Absolute Altitude (HA) computed true altitude exceeds -400 feet. This can be measured directly by taking an altitude calibration (for example, a 2420 Mean Sea Level (MSL) pressure altimeter reading and a 2000 feet OAS/ HA value would yield a -420 feet altitude variation).

A2.4.1.2. The aircraft radar altimeter indicates less than a 600 feet terrain crossing while at the MSA/IFR altitude.

A2.4.1.2.1. IR-800, points F to T: -600.

A2.4.1.2.2. IR-800, points AL to AX and AX to AS for racetrack routing: -600 feet.

A2.4.1.2.3. IR-801, points A to AL: Unlimited.

A2.4.2. When only the entry point area is forecast with excessive altitude variation, the crew may enter the route even with IMC conditions at the entry point. However, the crew cannot descend below 1000 feet above the IFR/MSA altitude for the route without entering and maintaining VMC. (T-3).

A2.4.3. When latter portions of the low-level route are forecast with excessive altitude variation and the entry point is within prescribed tolerances, crews may enter the route in IMC conditions and fly MSA/IFR altitude up to the area of excessive altitude variation. Prior to entering the area of excessive altitude variation, crews must be able to visually clear terrain in order to continue low-level operations. Once the forecast/observed area(s) of excessive altitude variation is overflown, subsequent portions of the low-level route may be flown.

A2.5. IR Route Timing Tolerances. Crews will use the timing tolerances as specified in FLIP AP/1B. In the absence of specified requirements, aircrew will enter only at scheduled time plus or minus 5 minutes. If the scheduled entry cannot be made within the above tolerance, the use of subsequent primary or alternate entry points/times is authorized provided the aircrew has been so briefed and will maintain route timing.

A2.6. VR Route Procedures. All flights on VRs will be conducted IAW AFI 11- 202 Vol 3. If FLIP AP/1B weather minimums cannot be maintained, the aircraft will abort the route. Aircraft will enter VRs only at designated route points. Exit only at designated route points unless weather conditions or an emergency situation dictates otherwise. (T-0).

A2.7. Route Deviation. If ATC issues instructions that cause the aircraft to deviate outside the route width or altitude structure (IRs or VRs), the aircrew may continue the mission provided the following conditions are met:

A2.7.1. ATC controllers can ensure positive radar surveillance until the aircraft is established back in the route structure.

A2.7.2. Mission timing tolerance can be met at the next low-level navigation point.

A2.8. Abort Procedures. Crews aborting low-level will obtain clearance from ATC prior to departing the low-level unless a safety of flight condition (turbulence, thunderstorms, equipment malfunctions, etc.) exists which necessitates an immediate climb or turn. If aborting without a clearance, climb to a safe altitude on a course which will avoid airways and Class A, B, C, and D controlled airspace when possible. In addition, aircrew aborting without a clearance will place the IFF to emergency setting, report the emergency and flight plan deviation as soon as possible and obtain a new clearance. If required to fly without an IFR clearance, cruise at appropriate VFR altitudes until IFR clearance is received. (T-2).

A2.9. Formation Low-Level.

A2.9.1. Prior to Descent to Low-level. Normally obtain low-level en route spacing, with ARTCC clearance, at high altitude prior to the entry point. If not obtained prior to entry, spacing for the low-level route may be acquired after all aircraft have entered the route structure by using airspeed differential or "S" turns within the corridor at the aircrew's discretion.

A2.9.2. Spacing for Degraded Aircraft Performance. If any aircraft has degraded performance (gear down, air refueling door open, etc.) to the extent they cannot meet formation time tolerances, but can meet published time tolerances, place that aircraft at the end of the formation before low-level entry. There can be no more than one degraded aircraft per low-level formation in IMC.

A2.9.3. Low-level En route.

A2.9.3.1. Spacing. Maintain low-level en route spacing by precise time control at each low-level action point. Reference AFTTP 3-3.B-52 for specific procedures.

A2.9.3.2. Altitude. All aircraft should plan to fly the same altitude schedule (SCA or MSA/IFR altitude) during low-level formation operations. Flight lead will direct formation to climb to MSA/IFR altitude prior to entering instrument conditions. If in instrument conditions, all aircraft will level off and fly MSA/IFR altitudes and maintain briefed timing separation for spacing. (T-3).

A2.9.3.3. Navigation:

A2.9.3.3.1. If visual, maximize EMCON procedures. Each aircraft will fly autonomously and need not be in trail of preceding aircraft. Terrain masking ground track may be different for each aircraft within the formation. Each crew must be constantly aware of the position of all other aircraft in the formation. Maintain appropriate spacing.

A2.9.3.3.2. Before flight, mission lead must brief en route threats, tactical considerations, update points, terrain masking plan, EMCON procedures, and visual or instrument procedures. Note: If conducting tactical maneuver training during en route navigation, it should take place in all aircraft. Turns in excess of 90 degrees heading change offer the potential for spacing conflicts when flight lead masks to the outside of a turn point and following aircraft masks to the inside. All aircraft must work from the same tactical scenario. Additionally, all aircraft should maneuver in response to threat signal activity.

A2.9.3.4. Airspeed. Control airspeed to meet low-level action points within briefed timing tolerances. Bomb run airspeeds will ensure time on target and weapons release parameters are met.

A2.9.4. Abort Procedures. Refer to [paragraph 3.3.9](#) for additional procedures.

A2.9.4.1. Individual Aircraft. If an individual aircraft aborts during low-level, immediately notify the formation and follow appropriate procedures. Absent overriding tactical considerations, all aircraft in the formation will place radars and air-to-air TACAN to operate/on. The aborting aircraft will clear the formation and notify them of intentions. Aborting aircraft have priority over all other activity.

A2.9.4.2. Aborting as a Formation. If the entire formation must abort the low-level route, follow appropriate procedures as defined in AFTTP 3-3.B-52. Additionally, absent overriding tactical considerations, all aircraft will immediately establish radio contact while placing appropriate radars and air-to-air TACAN to operate/on. Flight lead will direct altitude separation, headings, and airspeeds. Establish positive radar and/or visual contact before the formation performs any climbing maneuver other than to establish immediate altitude separation and maintain a safe terrain clearance. Establish abort routing, altitude, and procedures during the formation briefing. (T-3).

A2.9.4.3. In instrument conditions, if an aircraft cannot assure positive separation from other aircraft or is unable to maintain formation, immediately initiate a climb out of the low-level route and follow lost wingman procedures. (T-3)

Attachment 3

STRANGE FIELD FAMILIARIZATION

A3.1. Procedures for Flights into Strange Airfields. The following procedures aid in the preparation for flights into strange airfields. This outline is a guide and crewmembers should review only the information that is appropriate to their mission (for example, load bearing capacity need not be reviewed for flights into airfields with similar aircraft).

A3.1.1. Crews should review the following information for each base of intended landing:

A3.1.1.1. FLIP Enroute Supplement:

- A3.1.1.1.1. Traffic pattern/special practices
- A3.1.1.1.2. Nav aids maintenance periods
- A3.1.1.1.3. Facilities/services available
- A3.1.1.1.4. Load bearing capacity

A3.1.1.2. FLIP Planning Documents:

- A3.1.1.2.1. Special notices
- A3.1.1.2.2. Preferred routing
- A3.1.1.2.3. Terminal Control Areas
- A3.1.1.2.4. International Civil Aviation Organization (ICAO) information

A3.1.1.3. Approach Plates:

- A3.1.1.3.1. Airfield layout/obstacles/runway length and width
- A3.1.1.3.2. Final approach runway alignment
- A3.1.1.3.3. Airfield lighting
- A3.1.1.3.4. Navigation chart (review for local terrain features and ARDA considerations)

A3.1.2. Before departure from each base, crews may use the following guide as a means of reviewing the arrival/approach procedures for the next intended landing base:

A3.1.2.1. Departure:

- A3.1.2.1.1. Obstacles
- A3.1.2.1.2. Rate of climb required
- A3.1.2.1.3. Emergency/minimum safe altitudes
- A3.1.2.1.4. Routing/nav aids/altitude restrictions

A3.1.2.2. Enroute Descent:

- A3.1.2.2.1. Start descent point
- A3.1.2.2.2. Rate of descent required
- A3.1.2.2.3. Transition altitude

- A3.1.2.2.4. Terminal fix (IAF, FAF, Procedures turn fix, PAR, etc.)
- A3.1.2.2.5. Lost communications procedures
- A3.1.2.2.6. Emergency/minimum safe, sector altitudes
- A3.1.2.3. Published Penetration:
 - A3.1.2.3.1. IAF/holding fix
 - A3.1.2.3.2. Initial rate of descent required
 - A3.1.2.3.3. Transition altitude
 - A3.1.2.3.4. Altitude restrictions
 - A3.1.2.3.5. Emergency/minimum safe altitudes
 - A3.1.2.3.6. Final approach fix
 - A3.1.2.3.7. Lost communications procedures
- A3.1.2.4. Final Approach—Published or Radar:
 - A3.1.2.4.1. Rate of descent
 - A3.1.2.4.2. Timing
 - A3.1.2.4.3. Weather minimums/MDA/DH
 - A3.1.2.4.4. Missed approach procedures
 - A3.1.2.4.5. Lost communications procedures
 - A3.1.2.4.6. Transition to landing/runway environment

Attachment 4

STRATEGIC WEAPONS FERRY MISSION REQUIREMENTS

A4.1. Overview.

A4.1.1. A strategic weapons ferry mission is a peacetime operational procedure for the expedient relocation of nuclear cruise missiles, without warheads, using strategic combat aircraft. Units are encouraged and expected to use nuclear procedures to the maximum extent practicable (i.e. weapons preflight, loading, etc.), and comply with published guidance regarding in-flight training with weapons aboard.

A4.1.2. The term “tactical ferry” is a generic term for transportation of weapons and as such may be seen in nuclear cruise missile technical orders and other published guidance that applies to strategic weapons ferry missions.

A4.1.3. This directive does not apply to captive carry or other test flights conducted under Nuclear Weapon System Evaluation (NucWSEP). These test flights will be conducted IAW applicable project orders and test support plans.

A4.2. Implementation Order:

A4.2.1. A strategic weapons ferry mission (or series of missions) will be initiated with a AFGSC Implementation Order approved by the AFGSC, Director of Operations (AFGSC/A3). AFGSC/A3T will work with other staff agencies and with a point of contact (POC) in 8AF, 608 AOC, AFNWC/LG, and each unit involved to consolidate necessary information for Implementation Order preparation, and will plan to have the Implementation Order released not less than 45 days prior to first sortie. The Implementation Order will include, but is not limited to, the following information:

A4.2.1.1. Tasked units.

A4.2.1.2. Number of missiles and associated equipment to move by unit.

A4.2.1.3. Required end state of missile inventory.

A4.2.1.4. Configuration of pylons, Common Strategic Rotary Launcher (CSRL) and missiles as applicable.

A4.2.1.5. Pylon/CSRL System Interface Test/Missile Interface Test (SIT/MIT) requirements as applicable.

A4.2.1.6. Missile gain/loss documentation requirements.

A4.2.1.7. Crew qualification requirements.

A4.2.1.8. Sortie limitations.

A4.2.1.9. Coordinating instructions.

A4.2.1.10. POC for each organization.

A4.2.1.11. Funding instructions.

A4.2.1.12. Additional special instructions (SPINS) as required.

A4.2.1.13. Nuclear Weapons Related Material Transfer requirements.

A4.2.2. Implementation Order may modify or augment the directions in this manual.

A4.2.3. A sample Implementation Order is provided in [Figure A4.1](#) as an example.

A4.3. Crew Requirements:

A4.3.1. All crewmembers occupying primary crew positions will be RAP ready for the nuclear mission to a CMR or BMC rate (as assigned for to crew member's unit and duty assignment), IAW most recent AFGSC B-52 Ready Aircrew Program (RAP) Tasking Message.

A4.3.2. Strategic weapon(s) ferry missions must be flown by a full combat crew. The waiver authority for this requirement is AFGSC/A3.

A4.4. Crew Training:

A4.4.1. Crews assigned to strategic weapon(s) ferry sorties will conduct mission planning as a complete crew within 72 hours of mission execution. All crewmembers will review the following topics prior to each strategic weapon(s) ferry sortie during mission planning.

A4.4.1.1. Implementation Order Review: Briefing given by a wing POC for ferry operations with emphasis on items applicable to crewmembers, i.e. SPINS, sortie limitations, crew qualification requirements and aircraft configuration.

A4.4.1.2. Weather requirements.

A4.4.1.3. Divert procedures with emphasis on weapons security requirements at divert base.

A4.4.1.4. Fuel planning, to include ballast, air refueling and divert fuel.

A4.4.1.5. Fuel panel operations for applicable weapon load.

A4.4.1.6. Take off and heavy weight landings with applicable weapon load.

A4.4.1.7. Flight restrictions specific to a ferry mission.

A4.4.1.8. Emergency jettison: single missile, multiple missile and pylon as applicable.

A4.4.1.9. Center of gravity considerations, specifically fuel and jettison effects.

A4.4.1.10. Weapons preflight

A4.4.1.11. Operational Risk Management (ORM) Plan Review. Crew specific items as outlined in [paragraph A4.5.1](#) of this document.

A4.5. Operational Risk Management (ORM) Plan.

A4.5.1. Tasked wings will submit an ORM plan, coordinated through 8 AF 608 AOC, to AFGSC/A3T NLT 30 days prior to first strategic weapon(s) ferry sortie. The ORM plan must address the following topics at a minimum:

A4.5.1.1. Oversight of weapon payload verification prior to departing the weapons storage area.

A4.5.1.2. Oversight of weapon payload verification prior to aircraft loading.

A4.5.1.3. Oversight of weapon payload verification by aircrew or by wing weapons officer prior to aircrew acceptance.

- A4.5.1.4. Oversight of weapon preflight procedures.
- A4.5.1.5. Tanker support.
- A4.5.1.6. Communications requirements.
- A4.5.1.7. Weather considerations.
- A4.5.1.8. Bird-Aircraft Strike Hazard (BASH).
- A4.5.1.9. Sortie Go/No-Go criteria.
- A4.5.1.10. Enroute decision points.
- A4.5.1.11. Runway condition/runway condition reading (RCR).
- A4.5.1.12. CG/ballast issues.
- A4.5.1.13. Jettison.
- A4.5.1.14. Divert.
- A4.5.1.15. Command and Control Procedures.

A4.5.2. Weapon payload verification will include a plan to ensure agreement of Launcher/Pylon and missile serial numbers with approved unit schedule and work order.

A4.5.3. Units will identify issues requiring higher headquarters assistance as early as possible to ensure timely resolution prior to the first strategic ferry sortie.

A4.6. Sortie Execution:

A4.6.1. Commanders may delay or cancel strategic weapons ferry actions if required in the interest of safety. Unanticipated higher priority tasking (e.g. treaty visit requirements) may require delay or cancellation of ferry missions.

A4.6.2. Avoid scheduling arrivals during times of heavy pattern usage, and afford ferry sorties priority to minimize delays during recovery.

A4.6.3. Units will keep AFGSC/A3T and 8AF/608 AOC informed of daily strategic ferry sortie status during execution. AFGSC/A3T will coordinate communication method with unit POC. Advise AFGSC/A3T when sorties take off and land or become delayed (if not as scheduled, explain); unexpected risks noted and action taken and provide a POC who can be contacted for further information.

Attachment 5

LOST WINGMAN PROCEDURES

A5.1. Lost Wingman Procedures. Use these procedures when visual and radar contact are lost and positive separation cannot be assured. In any lost wingman situation, immediate separation of aircraft is essential to maintain safety. Upon losing sight of and radar contact with flight lead, or if unable to maintain formation due to disorientation, the wingman will simultaneously execute the applicable lost wingman procedure, transition to instruments, and notify flight lead. Use a bank angle equal to the number of degrees to turn to achieve separation. Smooth application of control inputs is imperative to minimize the effects of spatial disorientation. Any aircraft, which can maintain visual and/or radar contact with an aircraft executing a lost wingman maneuver, will remain in formation with that aircraft until otherwise directed by flight lead. When flight lead is notified by a lost wingman, they will take appropriate action as the situation dictates until assuring positive separation. Flight lead will establish a reference heading and altitude after initial separation is assured. During recovery, if the flight has a block altitude clearance, wingmen should establish appropriate altitude separation.

A5.1.1. Two-Aircraft Flights.

A5.1.1.1. In wings level flight (climbing, descending, or level) simultaneously transition to instruments, inform flight lead, turn 15 degrees away and maintain new heading for 15 seconds, then resume course. Return to formation or obtain separate clearance if required.

A5.1.1.2. On the outside of the turn, transition to instruments, roll to wings level, and inform flight lead. Continue straight ahead to ensure separation prior to resuming turn. Return to formation if able or obtain separate clearance as required.

A5.1.1.3. On the inside of the turn, simultaneously transition to instruments and maintain established bank angle, reduce airspeed by 10 KIAS to ensure clearance, and inform flight lead. Flight lead will simultaneously roll wings level, maintain airspeed, and acknowledge the wingman's call. If flight lead has acknowledged the lost wingman call and confirms lead aircraft is wings level, the wingman will, after 15 seconds, roll wings level, establish 500 feet altitude separation, turn to lead's referenced heading and attempt to acquire flight lead on radar. If flight lead does not acknowledge, the wingman will maintain established bank angle, establish 500 feet altitude separation and roll out on a new heading. Attempt to acquire flight lead on radar and form into enroute formation position. If radar contact cannot be reestablished, obtain separate clearance from the controlling agency.

A5.1.2. Three-Aircraft Flights. If only one aircraft in the flight is separated, the procedures listed above will provide safe separation. However, as it is impossible for number three to immediately ascertain if number two still has visual or radar contact with flight lead, it is imperative that number three's initial action be based on the assumption that number two is also separated. Number two will maintain position if in visual or radar contact. If number two goes lost wingman, follow the procedures outlined above; number three will follow the procedures listed below:

A5.1.2.1. In wings level flight (climbing, descending, or level) simultaneously transition to instruments, inform flight lead, turn 30 degrees away, maintain new heading for 30 seconds, then resume course. Adjust to formation or obtain separate clearance as required

A5.1.2.2. On the outside of the turn, simultaneously transition to instruments, inform flight lead and reverse direction of turn for 15 seconds to ensure separation from flight lead and number two. Adjust to formation or obtain separate clearance as required.

A5.1.2.3. On the inside of the turn, simultaneously transition to instruments and maintain established bank angle, reduce airspeed by 20 KIAS to ensure clearance, and inform flight lead. Flight lead will simultaneously roll wings level, maintain airspeed and acknowledge the wingman's call. If flight lead acknowledges the lost wingman call and confirms wings level, establish 1,000 feet altitude separation, turn to flight lead's referenced heading, and attempt to acquire flight lead and number two on radar. If flight lead does not acknowledge loss of visual contact, maintain established bank angle, establish 1,000 feet altitude separation, roll out on new heading, attempt to acquire flight lead on radar, and form into enroute formation position. If radar contact is not reestablished, obtain separate clearance from ATC.

A5.1.3. **All Aircraft.** At night, after establishing positive separation, absent overriding tactical concerns, all aircraft will display anti-collision and position lights to aid in reestablishing contact, if applicable.

Attachment 6 (Added-BARKSDALEAFB)
ENGINE RUNNING CREW CHANGE (ERCC)

A6.1. (BARKSDALEAFB) Mission Planning.

A6.1.1. **(BARKSDALEAFB)** The oncoming ERCC (ERCC output) aircrew will conduct thorough mission planning followed by a step brief from the Top 3. The scheduled bus departure time is 10 minutes prior to the ERCC input scheduled landing.

A6.1.2. **(BARKSDALEAFB)** If the ERCC sortie has planned AR and filing an alternate is required, ACs will ensure the planned fuel on board at the ARCT plus 15 minutes is sufficient to reach the Barksdale AFB IAF with required reserves for a possible divert.

A6.1.3. **(BARKSDALEAFB)** “Airtime” as noted in the 1B-52H-1 Taxi-Back Landing and Touch-and-Go Landing Checklists is defined as gear down after a full stop landing and achieving normal taxi speeds.

A6.2. (BARKSDALEAFB) Aircraft Recovery.

A6.2.1. **(BARKSDALEAFB)** The off-going (ERCC input) aircrew will contact the SOF upon entering the local area. Aircrew will relay the following information:

A6.2.1.1. **(BARKSDALEAFB)** Estimated land time, fuel on board, and Code 3 brevity words.

A6.2.2. **(BARKSDALEAFB)** ERCC input aircrew will land on scheduled time at (or slightly below) 270,000 lbs. and will not deploy the drag chute.

A6.2.3. **(BARKSDALEAFB)** Changeover will occur at the [2 BW] approach end or [307 BW] landing/roll out hammerhead, unless coordinated otherwise.

A6.2.4. **(BARKSDALEAFB)** After landing, ERCC input aircrew will accomplish the following:

A6.2.4.1. **(BARKSDALEAFB)** Stop in the rollout-hammerhead, set the parking brake, reconfirm previously calculated brake energy did not exceed 150 million Ft-lbs (Caution), and calculate required brake cooling period. [2 BW] Crews will shut down outboard engines IAW Taxi-Back Landing Checklist. Complete Taxi-Back Landing Checklist through step 13.

A6.2.4.2. **(BARKSDALEAFB)** [2 BW] Taxi to approach end hammerhead or coordinated changeover location.

A6.2.4.3. **(BARKSDALEAFB)** Fill in the applicable information on the AFTO Form 781H, Aerospace Vehicle Flight Status and Maintenance, complete the AFTO Form 781A, Maintenance Discrepancy and Work Document and make a copy of aircraft write-ups for maintenance debrief. Aircraft commanders will ensure the aircraft forms remain on the aircraft.

A6.2.4.4. **(BARKSDALEAFB)** Provide the incoming (ERCC output) crew with the DD Form 365-4, Weight and Balance Clearance Form F, EFB Mounts, ADS-B kits, CONECT Removable Storage Device (RSD) (if applicable) and **[307 BW]** Comm Kit and DTCs (if applicable). **[2 BW]** DTCs and Comm Kits will be brought by the ERCC output crew to tailor to mission requirements and to expedite changeover.

A6.3. (BARKSDALEAFB) Aircrew Changeover. Aircrew will perform the following actions in the runway hammerhead upon ERCC output aircrew arrival:

A6.3.1. **(BARKSDALEAFB)** Aircrew will wear double ear protection and ensure loose items are stowed.

A6.3.2. **(BARKSDALEAFB)** The ERCC input AC will remain in the aircraft to monitor systems, guard the brakes, and conduct a changeover briefing with the output AC. The changeover briefing will cover maintenance status, target trim, unstick speed, brake energy absorbed to include taxi-back braking applications, and landing time.

A6.3.3. **(BARKSDALEAFB)** The ERCC output AC will enter the aircraft first. Remaining crew members will enter and exit the aircraft while remaining well clear of engines.

A6.3.4. **(BARKSDALEAFB)** Prior to departing for the bus, the ERCC input AC will ensure the AFTO Forms 781 and equipment listed in [para A6.2.4.4](#) are still onboard the aircraft. Once the ERCC input AC has departed the aircraft, the ERCC output crew assumes responsibility for these items.

A6.4. (BARKSDALEAFB) Quick Turn for scheduled ERCC (drag chute deployed on landing). The procedures above apply except for the following:

A6.4.1. **(BARKSDALEAFB)** The off-going crew will taxi back to the parking location designated by Bomber 9 and shut down using the Quick-Turn checklist.

A6.4.2. **(BARKSDALEAFB)** The off-going crew will wait at the aircraft for the on-coming crew to arrive, transfer the forms to the on-coming crew, and conduct a brief that includes the pertinent data listed above and any non-critical aircraft write-ups.

A6.4.3. **(BARKSDALEAFB)** The on-coming crew will accept custody of the aircraft, continue to work any critical maintenance issues and conduct a normal launch following drag-chute repack by maintenance personnel.

Attachment 7 (Added-BARKSDALEAFB)

COLD PIT PROCEDURES

A7.1. (BARKSDALEAFB) Mission Planning.

A7.1.1. **(BARKSDALEAFB)** The oncoming (output) aircrew will conduct thorough mission planning prior to the sortie. Additionally, the output crew will receive a step brief from the Top 3 prior to stepping to the aircraft. Reference [Table A7.1](#) for the Cold Pit Timeline.

Table A7.1. (BARKSDALEAFB) Cold Pit Timeline.

Output Show	Input land -30 minutes
Squadron Bus	Input land -20 minutes
Step Brief	Input land
IOC Bus	Input land +10 minutes
Output T/O	Input land +150 minutes

A7.2. (BARKSDALEAFB) Aircraft Recovery.

A7.2.1. **(BARKSDALEAFB)** Crews will land on time above 260K GW and utilize the taxi-back landing restrictions present in T.O. 1B-52H-1 and AFMAN 11-2B-52v3.

A7.2.2. **(BARKSDALEAFB)** The off-going (input) aircrew will contact the SOF upon entering the local area. The SOF will relay the information to the Top 3 as required. Aircrew will relay the following information:

A7.2.2.1. **(BARKSDALEAFB)** Estimated land time, fuel on board, & code 3 brevity words.

A7.2.3. **(BARKSDALEAFB)** If able to comply with T.O. 1B-52H-1 and AFMAN 11-2B-52v3 taxi-back landing restrictions, the off-going (input) aircrew should hold the drag chute.

A7.2.4. **(BARKSDALEAFB)** After landing, the input aircrew will taxi to parking and accomplish the following:

A7.2.4.1. **(BARKSDALEAFB)** Run normal after landing and before leaving checklists with the following exceptions: bomb doors will remain closed and anti-skid switch will be turned off after engine shutdown.

A7.3. (BARKSDALEAFB) Aircrew Changeover.

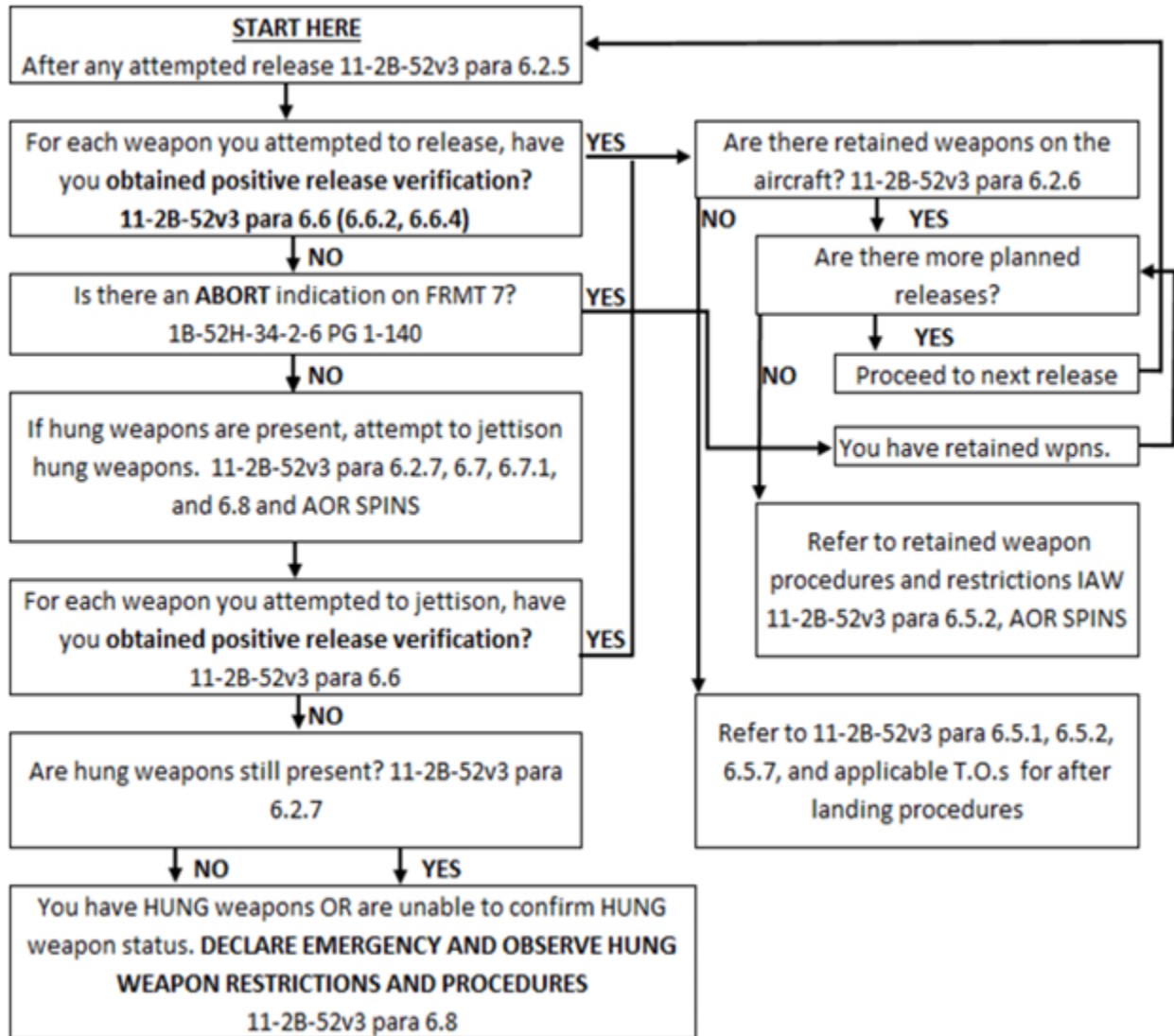
A7.3.1. **(BARKSDALEAFB)** To mitigate the risks associated with not using a Form 6 during PIT procedures crews will follow the following guidance. The input copilot will remain on the aircraft to configure the fuel panel and record initial fuel quantity as well as check the total fuel quantity against totalizer and individual tank gauges to ensure accuracy (IAW 1B-52H-5). The fuels tech or MX will add fuel and report the amount added to the copilot. The copilot will record the fuel added on the 781H forms and sign/date.

A7.3.2. **(BARKSDALEAFB)** All other crew members will offload and swap out with the output crew. Once refueling is complete or output crew has taken over, the input crew proceeds to maintenance debrief.

A7.3.3. **(BARKSDALEAFB)** All forms will remain on the aircraft unless a condition exists which would prevent the aircraft from flying the next mission. Maintenance will annotate in the forms if the chute was repacked. The input crew will make copies of the 781 write-ups to take to maintenance debrief.

**Attachment 8 (Added-BARKSDALEAFB)
WEAPON RELEASE FLOW CHART**

Table A8.1. (BARKSDALEAFB) Weapon Release Flow Chart.



Attachment 9 (Added-BARKSDALEAFB)

INDEX OF THERMAL STRESS (ITS)

A9.1. (BARKSDALEAFB) Index of Thermal Stress.

A9.1.1. (BARKSDALEAFB) The ITS is a product originating from AFI 48-151, Thermal Injury Prevention Program. It was designed for use by aircrew in jet aircraft with canopies and environmental control systems and is acceptable for use in B-52H operations. The ITS is designed as a tool for use by aircrew to identify and mitigate temperature-related risk to aircrew members. It is a guide only and should not be the sole determining factor in flying or canceling sorties.

A9.1.2. (BARKSDALEAFB) To utilize [Table A9.1](#), enter with local dry bulb temperature and dew point temperature; at intersection, read ITS value and zone. The “X” denotes combinations above saturation temperature. In addition to the guidance in section 8.1.26, the ITS Zone will be applied to the Risk Management Worksheet to determine the risk level that the most current weather reporting adds to the overall sortie.

Table A9.1. (BARKSDALEAFB) ITS Reference Values and Advisory Flag Colors.

NORMAL ZONE		CAUTION ZONE			DANGER ZONE					
<90° F		90 – 100° F			101 – 115° F			>116° F		
Dry Bulb Temperature	Zone	Dew Point Temperature								
(F)		30	40	50	60	70	80	90	100	>110
70		70	73	76	81	86	X	X	X	X
75		74	77	80	84	89	X	X	X	X
80	NORMAL	77	80	83	87	92	98	X	X	X
85		81	83	86	90	95	101	X	X	X
90		84	87	90	93	98	104	110	X	X
95		88	90	93	96	101	108	112	X	X
100		91	93	96	99	104	109	115		X
105	CAUTION	94	96	99	102	107	112			X
110		97	99	102	105	109	114			
115		100	102	105	109	112				
120	DANGER	104	105	108	111	115				