

**BY ORDER OF THE COMMANDER  
HOLLOMAN AIR FORCE BASE**

**AIR FORCE INSTRUCTION 13-212**

**HOLLOMAN AIR FORCE BASE**



**ADDENDA-A**

**15 MARCH 2011**

**Space, Missile, Command, and Control**

**HOLLOMAN PRIMARY  
TRAINING RANGES**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This addendum complements AFI 13-212 and AFI 13-212, ACC Supplement, *Range Planning and Operations*. It addresses all appropriate items applicable to all weapons systems and using agencies for Oscura, Red Rio and Centennial primary training ranges (PTR). Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual 33-363, *Management of Records*, and disposed of in accordance with Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS) located at <https://www.my.af.mil/gcss-af61a/afirms/afirms/>. Contact supporting records managers as required. Refer recommended changes and questions to the Office of Primary Responsibility (OPR) using AF Form 847, *Recommendation for Change of Publication*, to 49th Operations Support Squadron Range Management Office (49 OSS/OSTR), 700 Delaware Avenue, Holloman AFB, NM 88330-8014.

**SUMMARY OF CHANGES**

This document has been completely revised and must be completely reviewed.

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## Chapter 1

### RESPONSIBILITIES

**1.1. General Information.** Commanders are responsible for ensuring that all personnel within their jurisdiction comply with the provisions of this addendum when operating aircraft or performing ground operations and/or duties on Holloman AFB managed ranges.

**1.2. 49 WG (ROA).** The 49th Wing Commander (49 WG/CC) has designated the 49th Operations Group Commander (49 OG/CC) as the range operating authority (ROA) for Holloman ranges.

**1.3. Other Agencies.** Fort Bliss US Army (USA) is responsible for the land surrounding Centennial Range. White Sands Missile Range (WSMR) is responsible for the land surrounding Oscura and Red Rio Ranges. The Bureau of Land Management (BLM) is responsible for the grazing program in the areas surrounding Centennial Range.

**1.4. Host Unit.** The 49 OSS/OSTR Range Management Office is responsible for overall range management functions. The ACC Primary Training Range (PTR) contractor is responsible for daily operations and maintenance activities for all Holloman Ranges. On Oscura Range during manned class B operations, the contractor shall have initial firefighting and emergency medical response responsibilities within the 50,000 acre range boundaries.

**1.5. CES.** The 49th Civil Engineer Squadron (49 CES) is responsible for environmental support, EOD operational support, major facility maintenance support and engineering support for all Holloman Range facilities.

**1.6. Weather.** All aircrews are responsible for obtaining current weather information prior to using any Holloman Range. Weather minimums differ for each airframe and it is the responsibility of the flight lead to determine if it is safe to deploy weapons on the range.

**1.7. Range Users.** All range users are responsible for ensuring they comply with the provisions of AFI 13-212 and this addendum. All ordnance must be approved through the Weapons Danger Zone (WDZ) footprint program for each range prior to being expended. The WDZ program is available through the Range Management Office at 575-572-5088/5074 or our range GIS office at DSN 572-7781. In addition all ground party personnel wanting to utilize any Holloman Range must coordinate their request through the Range Management Office and receive a ground user safety briefing prior to being scheduled on range. The Range Operations Center (ROC) is the focal point for all range scoring and monitoring of ground parties on the ranges. The ROC may be contacted at 575-572-5716 (DSN 572-5716).

**1.8. Unit Feedback.** All range users are encouraged to provide both positive and negative feedback of our ranges through the Range Management Office. Feedback will be used to provide information to ensure our ranges meet the users training requirements.

**1.9. Scheduling Authority.** The Wing Scheduling Office (49 OSS/OSOS) is the scheduling authority for all Holloman Ranges and associated airspace. Scheduling may be contacted at DSN 572-3435.

## Chapter 2

### DESCRIPTION OF RANGE AND MILITARY OPERATING AREA

**2.1. General Information.** Holloman Ranges consist of Oscura Range, Red Rio Range and Centennial Range. All ranges are classified as class B/C ranges with remote scoring from the ROC located on Holloman AFB. Oscura Range encompasses 210,600 acres of airspace and is located within the US Army White Sands Missile Range restricted area. Oscura safety boundary area is 7,637 acres. Red Rio Range is a tactically configured air-to-surface range located north of Oscura Range within the US Army White Sands Missile Range restricted area encompassing 195,840 acres of airspace. Centennial Range is a tactically configured air-to-surface range located within the US Army Fort Bliss Training Complex (FBTC) restricted area and encompasses 416,000 acres of airspace and a fenced in 2,000 acre weapons danger zone impact area with an additional 43,249 acre safety buffer zone.

Figure 2.1. Holloman AFB (HAFB) Range Locations

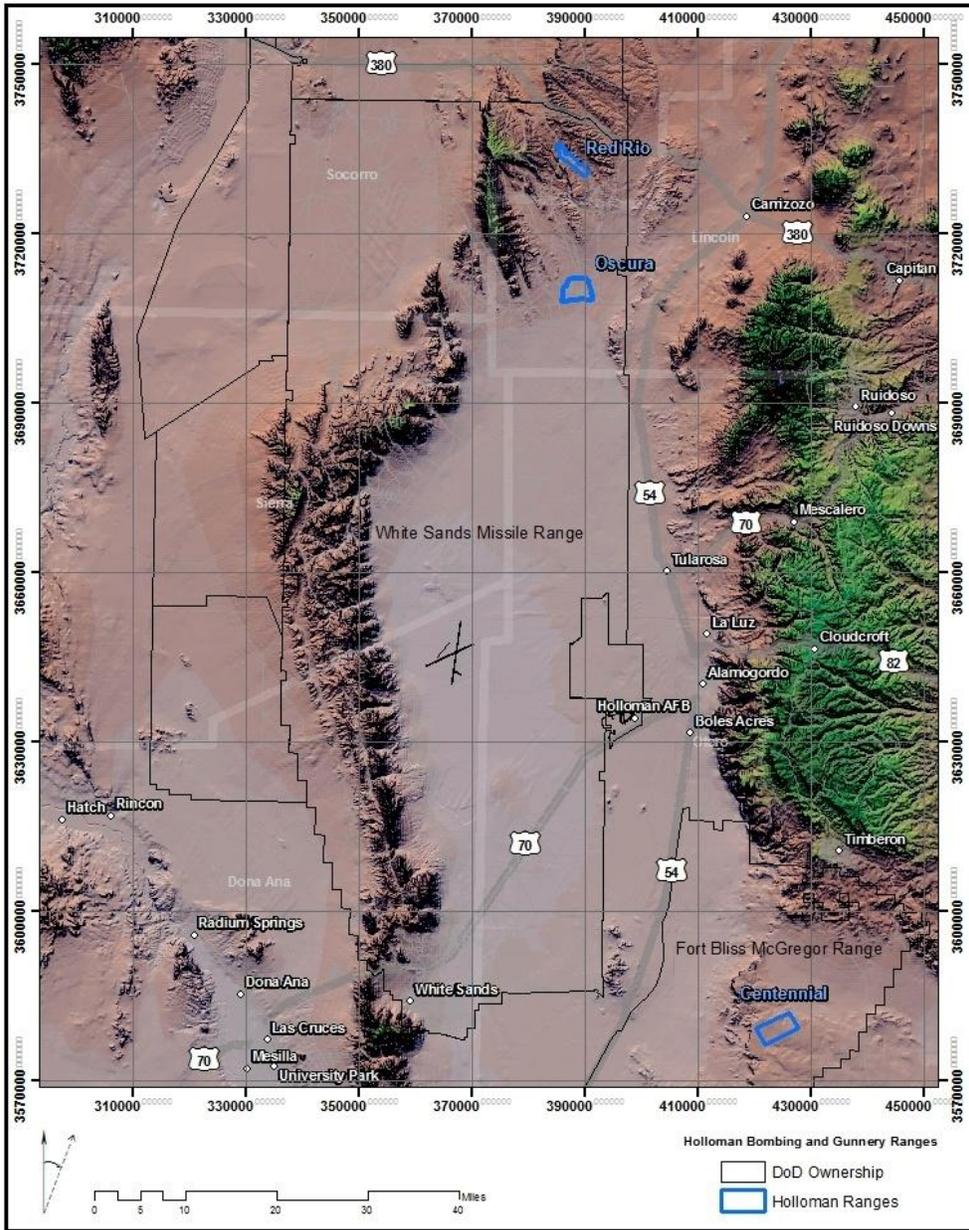


Figure 2.2. Oscura Range

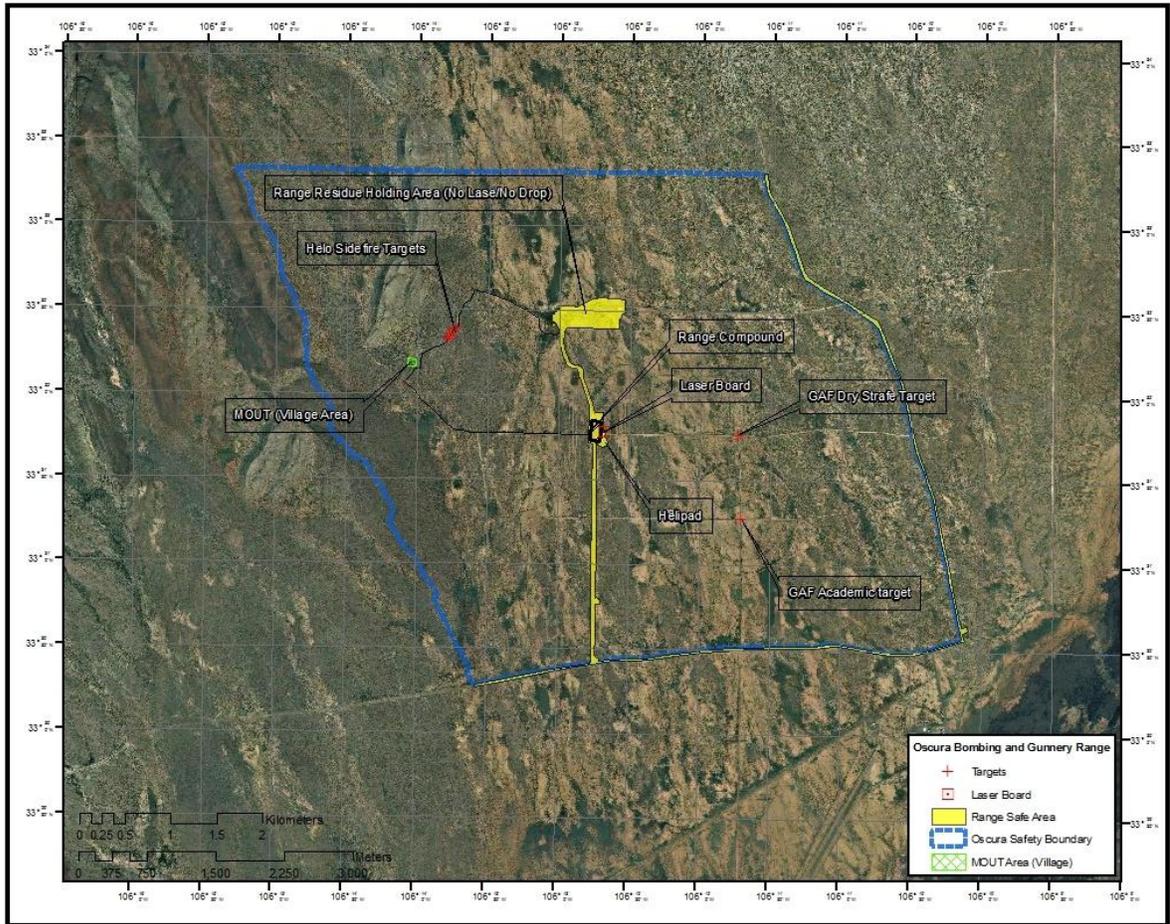


Figure 2.3. Centennial Range

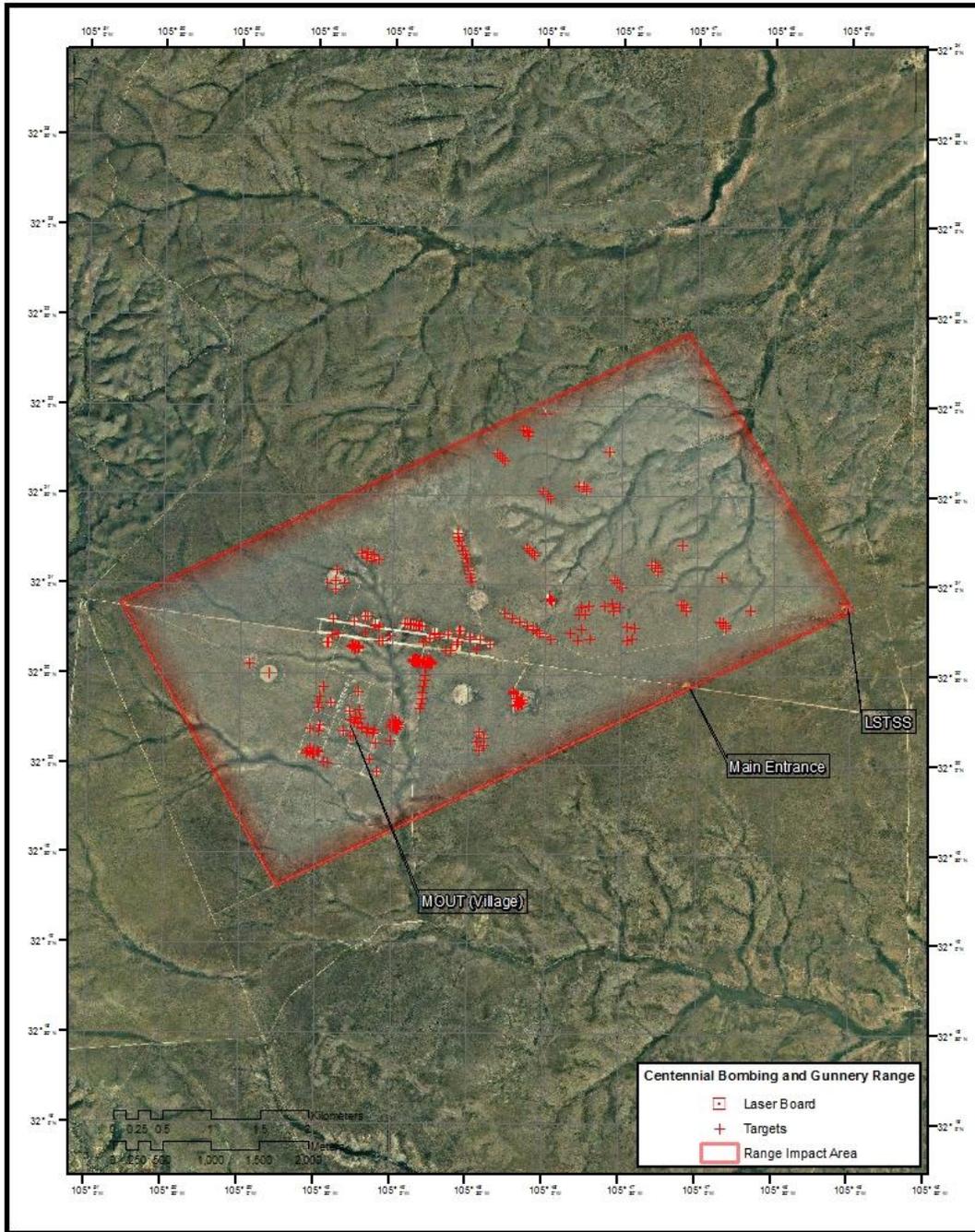
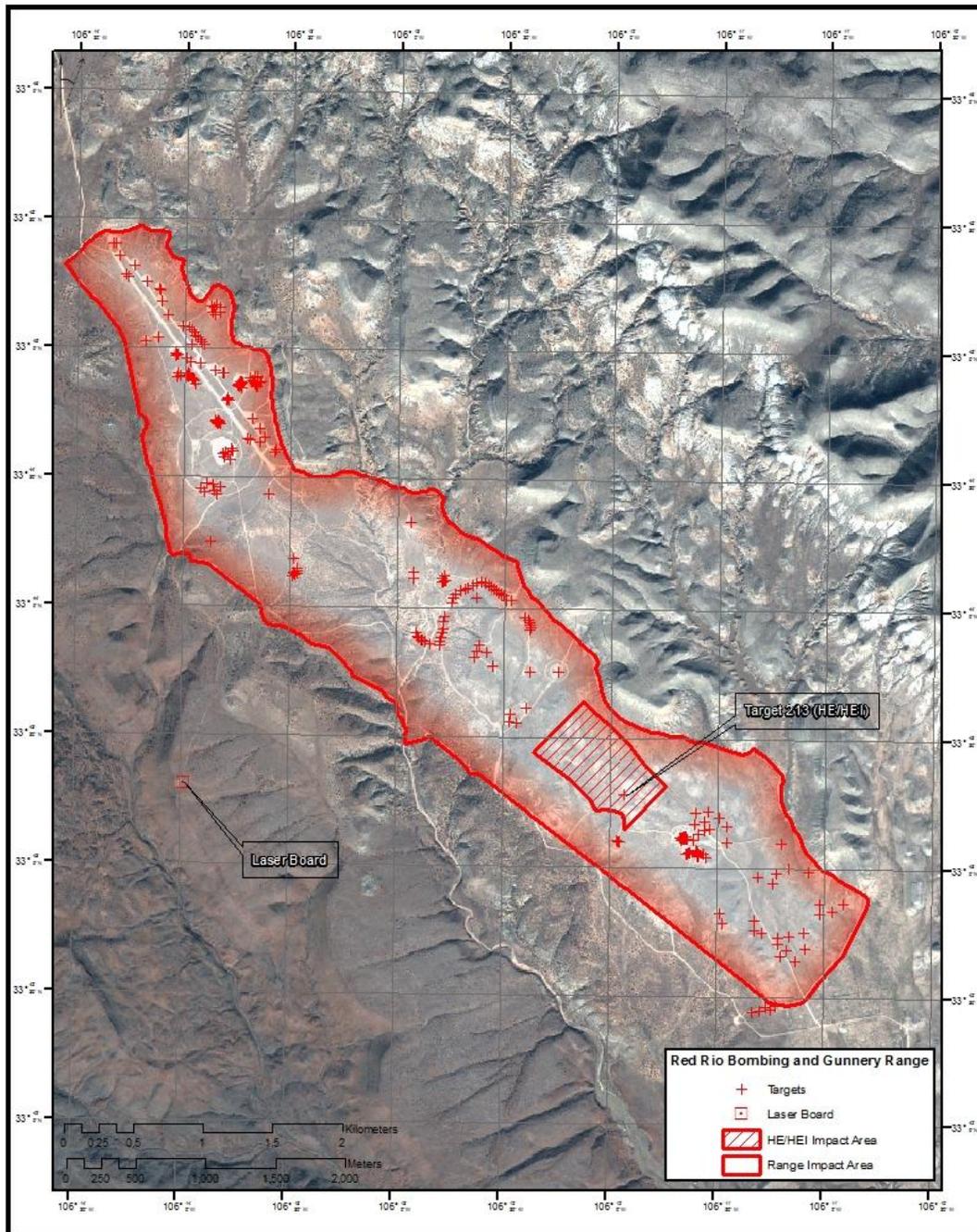


Figure 2.4. Red Rio Range



2.1.1. **Capabilities.** Oscura Range currently has one scorable target on the right range designated as the German Air Force (GAF) academic target. The left range has a no-drop tactical village for use by ground forces with or without remotely piloted aircraft (RPA) support for tactical and insertion/extraction training. There is also a helicopter door gunnery

target area north of the village for 7.62mm Training Projectile/Target Practice Tracer (TP/TPT). The left range is approved for landing zone (LZ) operations at flight lead discretion. There is a laser board located adjacent to the range compound for RPA bore sight operations.

2.1.1.1. Red Rio Range is a tactically configured air-to-surface range with over 200 scorable tactical targets approved for inert ordnance and TP/TPT ammunition. All targets are approved for laser operations. There is one live drop target area (approximately 96 acres) for High Explosive/High Explosive Incendiary (HE/HEI) munitions with prior approval by the Range Management Office. Red Rio is available for Close Air Support/Joint Tactical Air Controller (CAS/JTAC) training. There is a laser board located adjacent to the microwave tower for RPA bore sight operations.

2.1.1.2. Centennial Range is a tactically configured air-to-surface range with over 300 scorable tactical targets approved for inert ordnance and TP/TPT ammunition. All targets are approved for laser operations. There is a one square mile MOUT area. Centennial is also available for CAS/JTAC training. A laser board and Large Scale Targeting Sensor System (LSTSS) is located on Centennial Range and is depicted on the map.

2.1.2. **Hours of Operation.** Oscura and Red Rio Ranges are available for class C operations on a 24/7 basis. Normal class B hours of operation are from 0730 to 2230 hours (local) Monday through Friday. Centennial Range is available for class C (24 hour) operation from 0001 Monday through 1300 hours (local) on Fridays. Class B operations are available from 0730 to 2230 hours (local) Monday through Thursday, and from 0730 to 1330 hours (local) on Fridays. The range is normally closed from 1300 Friday through 2100 hours on Sunday per a BLM memorandum of agreement. It is possible to schedule Centennial Range for weekend use with two weeks prior coordination and approval from the Range Management Office, Bureau Land Management and Ft Bliss.

2.1.3. **Scheduling Procedures.** To schedule any of Holloman's ranges and/or associated airspace all users (ground and air) must contact the 49 OSS/OSOS a minimum of one week prior. Contact numbers are 575-572-3536 or 3537, (DSN 572-3536 or 3537. Ground users (other than range maintenance personnel) must also contact the Range Management Office a minimum of one week prior at 575-572-5088 or 5074, (DSN 572-5088 or 5074).

## 2.2. Restrictions.

2.2.1. **Common/General.** All ordnance deliveries for all ranges must be approved through the WDZ footprint program located in the Range Management Office. Use Attachment 3 to submit WDZ parameter requests to the Range Management Office for events not already preapproved by the ROA. All pertinent range information may be found on the Air Combat Command Range Operations and Requirements (ACC/A3AR) Community of Practice (CoP):

<https://www.my.af.mil/afknprod/community/views/home.aspx?Filter=OO-OP-AC-30>

Open the Ranges folder then the Holloman Ranges sub folder.

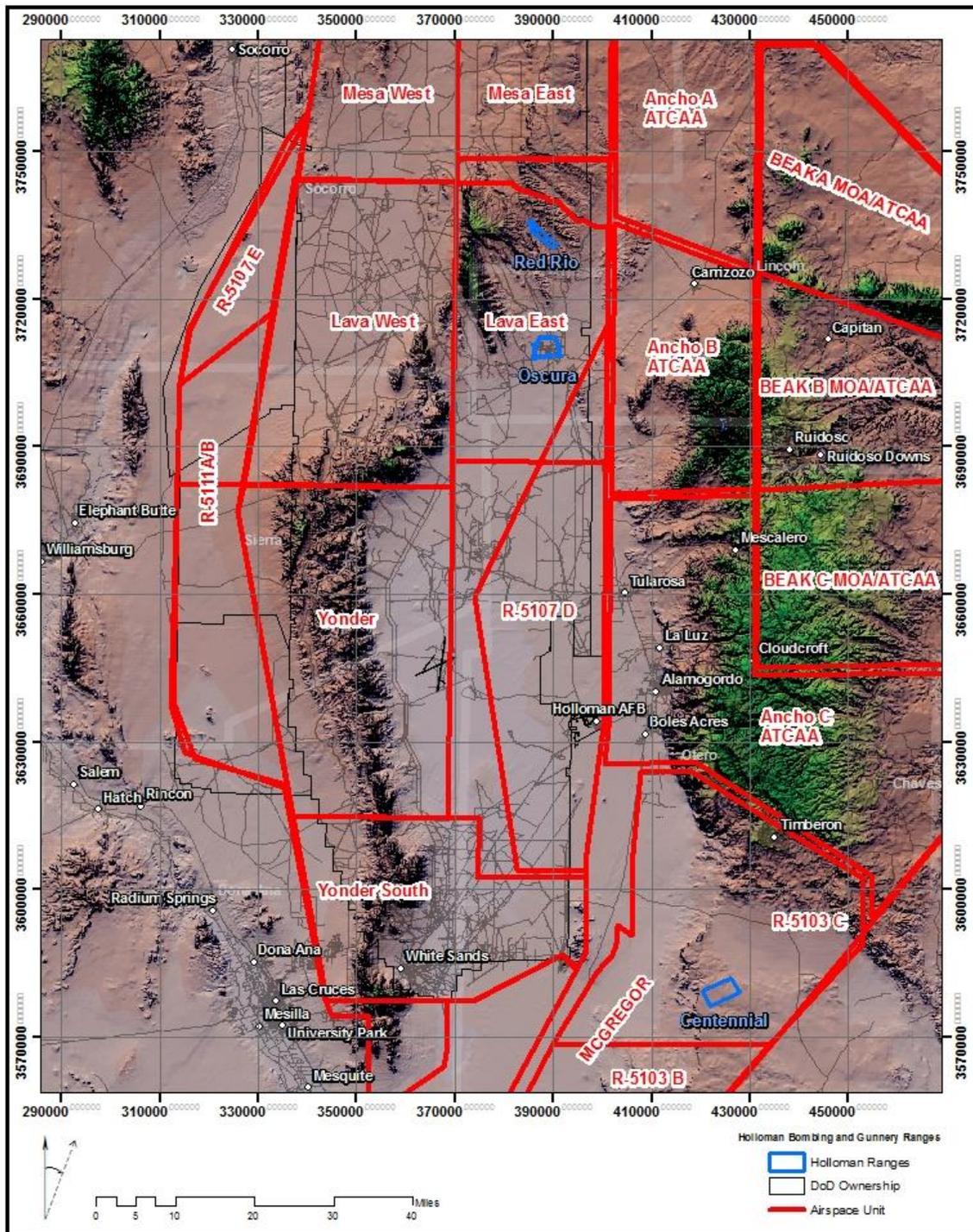
Oscura and Red Rio Ranges are subject to restrictions and/or closures by WSMR to accommodate WSMR test and evaluation missions. The 49 OSS/OSOS publishes the daily schedule on the following CoP:

<https://www.my.af.mil/afknprod/community/views/home.aspx?Filter=AC-OP-03-72>

2.2.2. **Range.** HE and HEI are not authorized on either Oscura or Centennial Ranges. HE and HEI are only authorized on target 213 on Red Rio Range with prior approval through the Range Management Office. The Oscura Range GAF academic target run in heading is 348 degrees magnetic. The dry strafe target is a no drop, no shoot target. The door gunnery target area on Oscura Range firing direction fan is from 275 to 45 degrees magnetic. Any structure painted white on Red Rio or Centennial Range is a no drop, no shoot asset. In addition all microwave towers and solar panel arrays are no drop, no shoot assets. Chaff is not authorized on Centennial Range. Combined Effects Munitions or Cluster Bomb Units are not authorized on any Holloman Range. No ordnance containing depleted uranium is authorized on any Holloman Range.

2.2.3. **Airspace.** All Holloman ranges and range patterns are fully under/within restricted airspace. Red Rio and Oscura are within R-5107B and some of Red Rio airspace also includes parts of R-5107C and R5107J. Oscura lies entirely within the restricted ground and airspace of WSMR (R5107B). Red Rio and Oscura airspace is normally from the surface to 15,000 feet Mean Sea Level (MSL); with prior scheduling authority coordination, airspace can be extended to 40,000 feet MSL. Units are required to coordinate desired altitudes with 49 OSS/OSOS to ensure separation between flights in Lava East and Red Rio/Oscura. Only that portion of Red Rio Range, which is south of Highway 380, is within the restricted ground boundaries of WSMR. Centennial Range is fully contained within R-5103C. Chaff is not authorized within R-5103B and R-5103C airspace. Airspace available during periods when Centennial Range is "HOT" is from surface to 60,000 feet MSL, desired altitude must be coordinated through 49OSS/OSOS.

Figure 2.5. Ranges Airspace Map



**2.3. Range and Military Operating Areas (MOA).**

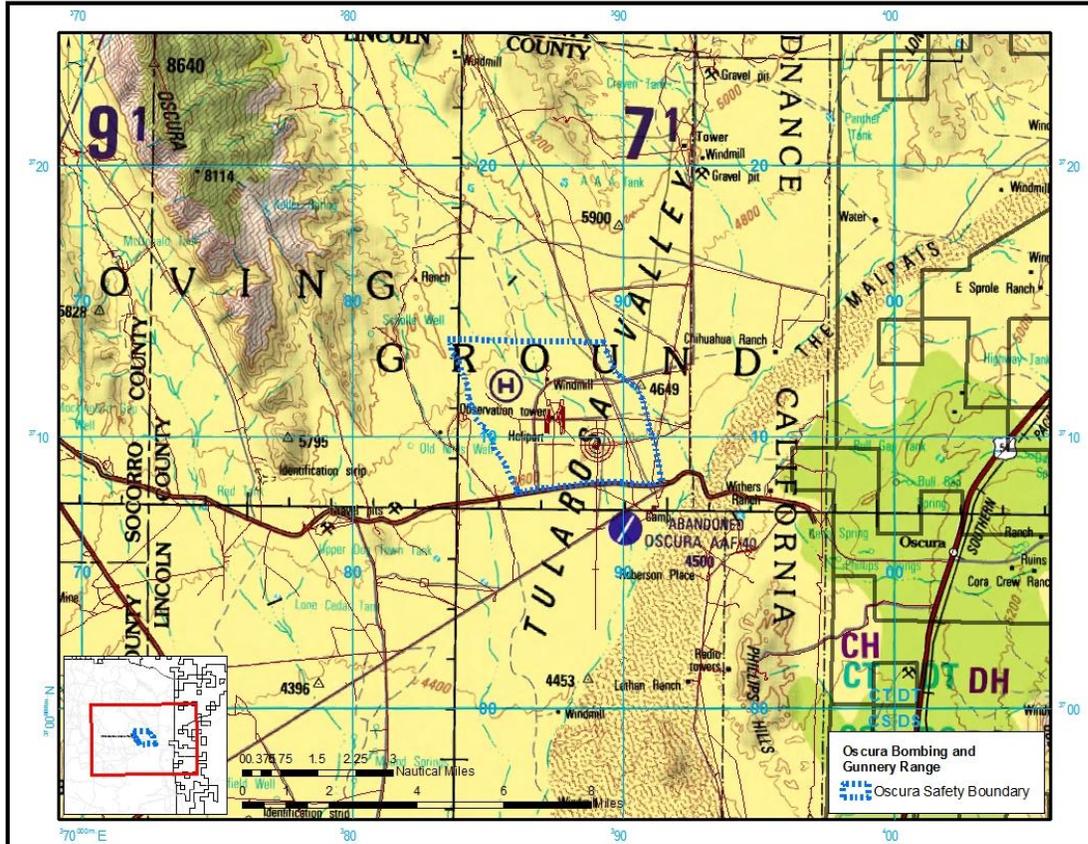
2.3.1. **Air-to-Ground Ranges.** Oscura, Red Rio and Centennial Ranges are all classified as air-to-ground ranges.

**Figure 2.6. Red Rio Range Safety Boundary**





Figure 2.8. Oscura Safety Boundary



2.3.2. **Tactical Ranges.** Red Rio and Centennial Ranges are classified as tactical ranges.

2.3.3. **Electronic Range.** Holloman does not currently have any electronic ranges.

2.3.4. **MOA.** There are no MOAs associated with or required for use/operation of Red Rio, Oscura or Centennial air-to-ground or Yonder air-to-air ranges. All operations/patterns are totally contained within restricted airspace.

**2.4. Range Routes, Air Refueling Tracks and Remotely Piloted Aircraft (RPA) Corridors.** AR-121 overlies both Red Rio and Oscura ranges and cannot be utilized if either range is scheduled for use above 15,000 feet MSL. No range route or RPA corridors impact use of the ranges.

**2.5. Landing Zones and Drop Zones.** The left range on Oscura Range is approved for LZ operations at the aircrew's discretion. Red Rio and Centennial Ranges are approved for LZ operations at the aircrew's discretion. There are no designated drop zones located on any Holloman Range however the US Army has designated drop zones on both WSMR and Fort Bliss McGregor Range property. Contact DSN 979-9248 to coordinate drop zones on Fort Bliss and DSN 258-0834 to coordinate drop zones on WSMR.

## Chapter 3

### OPERATIONS/WEAPONS DELIVERY PROCEDURES

**3.1. Overview.** All aircraft will accomplish a clearing/orientation pass at a minimum altitude of 500 feet Above Ground Level (AGL) before expending any ordnance on any Holloman Range. For ordnance to be authorized, an approved WDZ or Surface Danger Zone (SDZ) must be signed and approved by the ROA and on file. WDZs are aircraft specific and contain drop criteria (See attachment 3).

**3.2. Authorized Ordnance.** All ordnance deliveries must be approved by the ROA using the WDZ footprint program located in the Range Management Office. If the ordnance is not listed on the community of practice website contact the Range Management Office and the parameters will be run through the WDZ footprint program. We will advise you if it can be approved on our range with or without run-in heading restrictions.

3.2.1. Oscura Range is approved by the ROA for the following: BDU-33 and DM-18 on the right range GAF academic target only with a run-in heading of 348 degrees magnetic; 7.62mm TP/TPT on the left range helicopter door gunnery target area only with restrictions per the weapon danger zone footprint; small arms (M9, M11, M16, M4, M203) with non lethal sim ammo only, and ground defense weapons (M8, M18, M83) are authorized in the Oscura village area only.

3.2.2. BDU-33, DM-18, 2.75" inert rockets, 7.62mm, .50 cal, 20mm, 27mm, 30mm, 40mm, inert MK-82, BDU-50 and inert GBU-10/12; LUU illumination flares, are approved by the ROA on all targets on Red Rio and Centennial Ranges. Small arms (M9, M11, M16, M4, M203, M240B, and M2) with TP ammo and M385A1 are authorized on Red Rio Range.

3.2.3. GBU-10/12 live (HE), MK-82 live (HE), GAF MATRA and 105mm live (HE) are approved by the ROA on the Red Rio live drop target. A live weapon release report (see attachment 2) must be filled out and sent to the range management office not later than the next duty day.

3.2.4. The GBU-31/32/38 may be authorized on Red Rio and Centennial Ranges, and the GBU-24 may be authorized on Centennial range dependent on flight profile parameters with prior approval coordination through the Range Management Office.

3.2.5. US training Chaff such as RR-144, RR-112, RR-188 or BOZ 101 commonly known as I-J Band Chaff is authorized in WSMR restricted airspace. Maximum altitude is airspace vertical limit. Dispensing: ALE-39/40 dispensers, bursts, 240 per scheduled airspace/period allowed. Chaff dispensing on WSMR must be scheduled with WSMR scheduling office as part of the range scheduled mission. Refer to the current Chaff Permit located on the ACC A3AR CoP: <https://www.my.af.mil/afknpod/community/views/home.aspx?Filter=OO-OP-AC-30>

**3.3. Restrictions, Limitations and Footprint Data.** Run in heading restrictions are set for certain ordnance deliveries based upon results from the WDZ and SDZ footprint programs. Use attachment 3 for WDZ requests not already approved. All Joint Direct Attack Munition (JDAM) events must be accompanied by an Flight Crew Information File (FCIF). WDZ and SDZ footprints are completed by the Range Management Office and approved by the ROA then

placed in a binder in the Range Management Office. Unless ordnance is already preapproved in paragraph 3.2., range users must contact the Range Management Office for preapproval prior to expending ordnance and munitions on any Holloman Range. Ranges fire danger levels are accessed by the Range Management Office and restrictions are posted in the wing scheduling office, ROC and ACC A3AR CoP.

**3.4. Laser or Directed Energy Operations.** All Holloman Ranges are approved for laser operations. Directed energy weapons are not authorized on any Holloman Range. Approved laser eye protection must be worn by all ground personnel on the range whenever laser operations are in progress.

3.4.1. **Laser Systems.** The list of approved laser systems is located on the ACC/A3AR CoP under the Ranges folder, and in turn under the Holloman Ranges sub folder. <https://www.my.af.mil/afknprod/community/views/home.aspx?Filter=OO-OP-AC-30>

3.4.2. **Airborne.** Refer to the list of approved laser systems.

3.4.3. **Ground Laser Operations.** All ground laser operations must be conducted from approved range manned firing points only. The Range Management Office maintains the current Laser Safety Danger Zone (LSDZ) information.

3.4.4. **Directed Energy Operations.** Holloman Ranges are not currently approved for directed energy weapons.

**3.5. Night Operations.** All Holloman Ranges are approved for night operations. There is currently no IR scoring capability for night operations. All night operations are conducted under class C operations with flight lead control.

3.5.1. **Night Lighting.** Oscura Range is the only range equipped with night lighting. Prior coordination with the ROC is required if night lighting is required as the lighting is remotely controlled from the ROC.

3.5.2. **NVD.** NVD operations are approved on all Holloman Ranges and must be conducted in accordance with current aircrew training standards.

3.5.3. **Infrared Enhanced Targets.** Holloman Ranges do not currently have any infrared enhanced targets.

**3.6. Unmanned Threat Emitters.** Holloman Ranges do not currently have any unmanned threat emitters.

**3.7. Transition Corridor Operations and Range Entry/Departure.** All aircraft must receive clearance from Cherokee Control, UHF 305.5 Primary (P) or 346.7 Secondary (S) to enter the WSMR complex airspace. Aircraft will normally enter Oscura Range airspace from VR 176 from either the south at Romeo, 33° 18'N 106° 13'W (337°/27 DME Holloman TACAN/WSMR NRD grid intersection of Romeo and 52 lines); the east at Hills, 33° 26.7'N 106° 03.6'W (352°/35 DME Holloman TACAN); from the north at Trails, 33° 43'N 105° 57'W (358°/53 DME Holloman TACAN); or southeast at Capes, 33° 17.25'N 106° 04.0'W (354/24). Aircraft proceeding from Hills to the Oscura Range holding area will not descend below 15,000 feet MSL until south of 33° 25'N latitude (WSMR NRD grid line 56). All aircraft will normally exit Oscura Range to the east at Hills between the north boundary and main range complex above 10,500 feet MSL. Departures via the Sands and Salinas Corridors or through Red Rio Range may be accomplished provided this is coordinated with and approved by Cherokee. Departing

aircraft will maintain Visual Flight Rules (VFR) until clear of WSMR airspace. Aircraft, which exit east off range and plan to recover at Holloman, will proceed east and intercept the Holloman 357° radial inbound and contact Holloman Approach Control for recovery clearance. Aircraft exiting east off range and not planning to recover at Holloman may obtain an instrument flight rules (IFR) clearance by contacting Holloman Approach Control for hand-off to Albuquerque Center. Aircraft, which exit north through Red Rio Range and wish to obtain an IFR clearance, will contact Albuquerque Center after departing WSMR airspace.

3.7.1. Entry procedures for **Red Rio Range**: Prior to entering Red Rio Range, radio contact with Cherokee UHF 305.5 (P) 346.7(S) will be established. Cherokee will issue clearance to enter the range. The normal working frequency will be UHF 279.7. Entry into Red Rio can be from IR 113, IR 133, VR 176, VR 1233, VR 100, VR 125, holding at Trails, the Sands Corridor, or other WSMR areas.

3.7.2. All aircraft will normally exit Red Rio Range to the east. Departures via the Sands and Salinas corridors may be accomplished if approved by Cherokee ultra high frequency (UHF) 305.5 (P) 346.7 (S). Aircraft will maintain VFR and depart at appropriate VFR altitude. If IMC, obtain an IFR clearance through Cherokee. Aircraft which plan to exit east off range and recover at Holloman will exit the range at Canyon, 33°39'N 106°04'W (352°/47 DME Holloman TACAN) and proceed to Springs, 33°31.5'N 106°1'W (357°/40 DME Holloman TACAN). Aircraft will contact Holloman Approach Control 269.225 for recovery clearance. Aircraft exiting off range and not planning to recover at Holloman may obtain an IFR clearance by contacting Albuquerque Center through Cherokee. Aircraft that proceed south along the VFR corridor will contact Holloman Approach Control 269.225 for clearances, flight following, and advisories. All aircraft will clear off WSMR with Cherokee as soon as practical prior to departing WSMR airspace. Upon exiting the assigned WSMR working area, aircraft will not penetrate other WSMR airspace without approval from Cherokee.

3.7.3. Entry procedures for **Centennial Range**: Takeoff from Holloman AFB Direct to Range Entry. Depart Holloman AFB runway 16/22/25 via standard climb-out in accordance with (IAW) Holloman AFB Instruction (HAFBI) 11-250. For RW 34 departure, expect sequencing and vectors for a southbound routing. For departure from any runway, climb and maintain correct VFR hemispherical altitude at or above 11,500 feet MSL. Maintain extreme vigilance for civilian and military aircraft operating in the VFR corridor that runs between El Paso and Alamogordo. Aircrews entering from a low level Military Training Route (MTR) IR 134, IR 192, IR 194 or IR 195 are responsible for adherence to all MTR procedures in FLIP AP 1B, and in local instructions. Establish radio contact with "Centennial Control" on UHF 252.5. Use extreme vigilance and ensure altitude or geographic deconfliction when entering R-5103 from an MTR if other aircraft are already conducting target attacks; established in standard range holding; or exiting the range to the northeast.

3.7.4. Range over flight: R-5103B (SFC-up MSL unlimited) and R-5103C (SFC-up MSL-unlimited) comprise the Restricted Airspace associated with the Fort Bliss McGregor Army Range. As a minimum, R-5103C must be activated prior to using Centennial Range. When either R-5103B or R-5103C is active, no portion of the Fort Bliss McGregor Range may be over flown without clearance from Centennial Control. Aircraft cleared for over flight of the range area will adhere to all restrictions imposed by Centennial Control. Establish radio contact with "Centennial Control" on UHF 252.5. Centennial Control must approve all

variations or deviations from issued clearances once on the range. When the range is "HOT", flight through McGregor airspace is prohibited unless cleared by Centennial Control with the concurrence of any aircraft or flight working the range.

3.7.5. Range Holding: Holding on range is authorized only after receiving range entry clearance from Centennial Control and if coordinated with the aircraft already operating on range. The standard range holding pattern is outbound on the Holloman 125 degree radial between 15 and 22 DME using left turns, 45 degrees of bank, at or above an altitude of 9,500 feet MSL. Holding altitude may be adjusted if coordinated between aircraft using the range.

3.7.6. Aircraft recovering VFR to HMN will make every attempt to contact Holloman Arrival Control on 335.625 after checking out with Centennial Control and prior to departing R-5103 airspace. Aircraft should exit R-5103 airspace north of NM State Highway 506 (east-west gravel road, approximately 10 miles north of the town of Oro Grande) and then proceed direct to Arrington Tanks (HMN 142/08) at or above 8,500 feet MSL maintaining correct VFR hemispherical altitude. If aircraft are holding on range at the standard hold altitude of at or above 9,500 feet MSL, maintain 8,500 feet MSL during range exit. Holloman Arrival Control will provide descent clearance and sequencing into the Tower pattern or vectors for an instrument approach as requested by pilot or flight lead. NOTE: Use extreme vigilance for aircraft operating in close proximity to HMN especially aircraft executing standard climb-out for RWY 16 and aircraft turning crosswind on RWY 16, 90 to initial if on RWY 34, or downwind in the tower pattern. Aircraft unfamiliar with local airspace operating procedures and desiring an expeditious VFR recovery to Holloman AFB should establish contact with Holloman Arrival Control on 335.625 prior to departing R-5103 airspace for vectors and sequencing. Aircraft desiring an IFR recovery to HMN will make every attempt to contact Holloman Approach Control on 269.225 after checking out with Centennial Control and prior to departing R-5103 airspace. Aircraft will exit R-5103 airspace to the northeast at or above 10,500 feet MSL maintaining correct VFR hemispherical altitudes and proceed to FITZZ(HMN 093/20). Advise Holloman Approach of intentions (east recovery, instrument approach, etc.) and expect an IFR clearance at 13,000 feet MSL to FITZZ for requested recovery. NOTE: Use extreme vigilance for aircraft arriving from the east at or above 13,000 feet MSL

3.7.7. Aircraft exiting VFR southbound will exit R-5103 airspace south of NM State Highway 506 (east-west gravel road, approximately 10 miles north of Oro Grande) at or above 10,500 feet MSL (maintaining correct VFR hemispherical altitude) and proceed south via the VFR corridor. Contact Holloman Approach Control 269.225 prior to exiting R-5103 airspace (if able) for traffic advisories. While in the VFR corridor, remain west of and within 2 NM of the north-south rail line until abeam the Newman Tacan EWM Channel 71. Do not fly east of the railroad prior to EWM as hot missile firing are conducted in restricted airspace on both sides of the VFR corridor. Flight above 12,500 feet MSL in the corridor is recommended for ease of radar identification and safer deconfliction. Contact El Paso Approach Control abeam the town of Oro Grande. NOTE: Use extreme vigilance for civilian aircraft operating VFR in the corridor.

3.7.8. Priority test missions in WSMR airspace will prohibit range crossings. AIRCRAFT SHOULD NEVER COUNT ON CROSSING WSMR AIRSPACE. Contact CHEROKEE prior to departing Fort Bliss McGregor Range airspace to coordinate crossing WSMR airspace. Aircraft will not penetrate WSMR airspace without approval from CHEROKEE.

**3.8. Helicopter Operations.** Helicopter operations may be conducted on all Holloman Ranges under flight lead control using visual flight rules. The left range on Oscura Range and all of Red Rio and Centennial Ranges are approved for LZ operations at the aircrew's discretion. Oscura Range has an approved helicopter landing pad on the east side of the range compound, this pad is available 24/7.

**3.9. Weather.** Current local area weather is available through Cherokee Control. Current weather for each range is available through the Range Operations Center (ROC) at 575-572-5716 (DSN prefix 572).

**3.10. Minimums and Fouls.** Not applicable, all Holloman Ranges are class B/C ranges with no RCO's.

**3.11. Emergency Procedures.**

3.11.1. **Emergency Airfields.** In the event of an in-flight emergency over any Holloman Range aircrews are encouraged to recover directly to Holloman AFB.

3.11.2. **Dropped Object and Inadvertent Release.** Dropped objects within the weapons danger zones will not affect normal range operations. Aircrews may proceed with their training mission unless the release causes any problem with the aircraft. At the completion of the mission the flight lead should contact the Range Management Office and report the incident. Any off range release must be reported to Cherokee/Centennial Control as soon as possible. Cherokee/Centennial Control shall then report the incident to the Range Management Office. Aircrews must record the altitude and coordinates of the release and attempt to mark the impact coordinates if at all possible. In the event that a live weapon (HE) is inadvertently released the flight lead must immediately notify Cherokee Control and provide the altitude and coordinates of release and then attempt to mark the impact coordinates if at all possible. Cherokee Control will then notify the Range Management Office.

3.11.3. **Hung Ordnance and Unsafe Gun Procedures.** If on final, recover the aircraft and fly straight ahead until the gun stops firing. Attempt to keep as many impacts as possible within the range weapons danger zone area. After recovery, safe all switches. If other than on final aim toward an uninhabited area and immediately safe all switches. If recovering at Holloman, recover using hung bomb route to straight in approach on Runway 22/25 and de-arm in arm/de-arm Golf.

3.11.4. **Jettison Procedures.** These procedures are not intended to deny aircrews the option of immediate jettison if, in their judgment, retention of external stores will jeopardize aircraft control or aircrew safety. The external stores jettison area for Red Rio and Centennial Range is the airfield runway. Jettison passes will be controlled by the flight lead and performed in accordance with technical order procedures. For controlled jettison, the aircraft will overfly the runway at a safe separation altitude and jettison the stores over the runway. The Red Rio and Centennial Range jettison area will be used for inert and training ordnance only. Live ordnance will be jettisoned on the Red Rio Range live target (213) only.

3.11.5. **Range Fires.** The Range Management Office will assess the wildland fire conditions and assign the Fire Danger Rating and associated restrictions for the ranges IAW the HAFB Wildland Fire Management Plan and it will be posted on the daily wing flying schedule. In the event of a fire on any Holloman range the fire shall be immediately reported

to the ROC when the ROC is operational. During times when the ROC is not operational the fire shall be reported to Cherokee. All fires within the range fire breaks will be allowed to burn themselves out. The ROC shall monitor all fires on the range task cameras and follow procedures outlined in the ROC Procedures Manual. Aircrews will cease firing operations unless instructed to continue by the Range Management Office, over flight may continue at aircrew's discretion. Any fire that starts outside the range fire breaks will require fire suppression operations by trained fire suppression personnel. The range will be immediately closed to all laser and ordnance drops and over flight will be prohibited below 3,000 feet AGL. On Oscura Range when the range is manned during class B operations the assigned wildland fire suppression personnel will suppress all range fires, inside and outside the fire breaks. When the range is unmanned fires within the fire breaks will be allowed to burn themselves out. Oscura will be closed during fire suppression operations and over flight will be prohibited below 3,000 feet AGL.

**3.11.6. Emergency Medical Services (EMS).** In the event of a vehicle accident or medical emergency contact the ROC when the ROC is operational, when the ROC is not operational call 911 on your cell phone. The ROC will follow procedures as outlined in the ROC Procedures Manual. State the nature of the emergency, location and render first aid as applicable. When Oscura is manned during class B operations there is at least one New Mexico licensed emergency medical technician (EMT) on duty to respond to accidents and medical emergencies on and within the areas around Oscura Range and Red Rio range. WSMR Stallion Fire Station has an ambulance and EMT's on duty with approximately a 45 minute response time to Oscura and 60 minute response time to Red Rio. Lincoln County EMS will respond to highways 380 and 54 North. For highways 54 South and 506 and Centennial Range the Otero County Sheriff's Office E-911 dispatch center will dispatch county emergency services personnel with approximately a 30 minute response time. Air ambulance service is available from Alamogordo and may be requested through the Otero County Sheriff's Office E-911 dispatch center, GPS coordinates are required when requesting air ambulance services.

**Chapter 4****ELECTRONIC COMBAT RANGE/ELECTRONIC SCORING SITE**

This section is not currently applicable to Holloman Ranges.

## Chapter 5

### RANGE CONTROL OFFICER RESPONSIBILITIES

**5.1. Responsibilities.** There are currently no RCO's on any of Holloman's ranges. The civilian Range Operations Officers (ROO's) are responsible for overall ground safety for all Holloman ranges and determining WDZ/SDZ footprints. The military ROO is responsible for all aircrew safety issues for Holloman's ranges.

**5.2. Checkout and Certification Procedures.** There is no current requirement for RCO's on Oscura Range as it was converted from a class A range to a class B/C range.

**5.3. Range Control Officer (RCO) Scheduling.** Not applicable.

**5.4. Notification and Transportation.** Not applicable.

**5.5. Range Opening.** Ranges will be opened for class B operations by the Range Operations Center (ROC). The ROC will ensure the Weapons Impact Scoring System (WISS) scoring system and all radio communications systems are operational within 15 minutes of opening the ROC. Any system outages must be reported to the Range Management Office as soon as possible and any follow up status reported on a daily basis. A security sweep of all ranges will be accomplished during the opening and 15 minutes prior to each scheduled mission utilizing the task cameras.

**5.6. Range Schedule.** The range schedule will be electronically posted on the large screen Liquid Crystal Display (LCD) monitor in the ROC and updated as required during the day whenever the Wing Scheduling Office sends out an update.

**5.7. Aircraft Control.** Aircraft will be controlled by Cherokee/Centennial Control at the White Sands Radar Facility.

**5.8. Range Fouls.** Not applicable.

**5.9. Ground Party Control.** Cherokee/Centennial Control has overall authority for all ground parties entering Red Rio and Centennial Range and the weapons danger zones on Oscura Range. The ROC is the focal point for monitoring ground parties on range. All personnel requesting entry onto any Holloman Range must receive a ground user safety briefing through the Range Management Office. Exception: Range maintenance personnel who work directly for the ranges will receive an annual range safety briefing. All ground parties must be scheduled through the Wing Scheduling Office. For Oscura Range the access road to the range compound, flank tower, the range compound, helicopter pad, access road to the target holding area/munitions residue storage area are all within the range safety areas. Access to the left or right ranges must be scheduled through the Wing Scheduling Office. All ground parties must have radio contact with the ROC. Exception: JTAC teams may use direct radio communications with Cherokee/Centennial Control when available. The ROC (when operational) will monitor all ground parties on range. In the event of any emergency on range the ROC will contact the appropriate response agency IAW the ROC Procedures Manual. Range operations and maintenance vehicles will utilize an overhead flashing warning light anytime they are within a weapons danger zone area. All vehicles entering any weapons danger zone area must have radio communications with the ROC. Exception: Emergency vehicles responding to a designated

emergency on range must have radio communications with their dispatch center and coordinate entry/departure through Cherokee/Centennial Control.

**5.10. Restricted Operations.** The ROO's will oversee all restricted operations on the ranges and ensure range users are in compliance with all pertinent range safety guidance.

**5.11. Strafing Operations.** Oscura Range is approved for helicopter side fire strafe using 7.62mm on the left range helicopter strafe targets only. Firing direction of 275 through 45 degrees restriction must be strictly adhered to. No other Oscura targets are approved for strafe. Red Rio Range is approved for high angle and tactical strafe on all targets with no firing direction restrictions. Centennial Range has one approved scorable low angle strafe target (target 155). The low angle strafe target run-in heading is 210 + or - 10 degrees True Track. High angle and tactical strafe are authorized on all other targets with the exception of the LSTSS target area. High angle and tactical strafe attacks must be oriented to avoid hitting any tower structures.

**5.12. Range Visitors.** All range visitors requesting to enter Red Rio or Centennial Ranges must coordinate their request through the Range Management Office and receive a ground user safety briefing. Personnel not familiar with our ranges or range operations must be escorted on the range. There is a perimeter traffic gate on the Centennial access road located at Horse Camp which will remain locked during periods when the range is open. All visitors and maintenance personnel must receive authority to proceed past this point either from the HAFB Range Management Office or Fort Bliss McGregor Range Control. This gate will remain opened during weekends when the range is closed per the BLM memorandum of agreement so ranchers can tend to their cattle. There are signs posted around the Red Rio weapons danger zone outer safety boundary. All maintenance personnel and Department of Defense (DOD) personnel requiring entry into this area must receive authority to proceed through the HAFB Range Management Office. All deliveries entering the Oscura Range compound must report in to building 9000 and must remain in the designated safety areas at all times. All Special Operations, JTAC, security forces and law enforcement personnel requesting use of the left range village area must have their respective team chiefs receive the tactical ground user safety briefing through the HAFB Range Management Office. Any visitor requiring entry onto the left or right range must receive a ground user safety briefing through the HAFB Range Management Office prior to going to Oscura Range and be on the schedule through the Wing Scheduling Office. All visitors not familiar with range operations must be escorted onto the range, no exceptions.

**5.13. Range Closure.** Ranges will be classified as class C whenever the ROC is non operational. Ranges will be closed for scheduled maintenance/clearances by the Range Management Office and the schedule will be routed through the 49 OSS/OSOS organizational email box and posted on the ACC A3AR CoP under the HAFB range folder. Ranges will be closed at any time an emergency occurs on range and all aircraft will be instructed to go high and dry. Centennial Range is normally closed from 1330 local on Friday through 0000 local Sunday.

**5.14. Reports.** The monthly range utilization report will be compiled by the ROC and forwarded to ACC A3AR by the Range Management Office. Munitions expenditure data will be forwarded to 49 CES by the Range Management Office.

**Chapter 6**

**AIR COMBAT MANUVERING INSTRUMENTATION**

This section is not currently applicable to Holloman Ranges.

DAVID A. KRUMM, Colonel, USAF  
Commander, 49th Wing

**Attachment 1****GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFI 13-212, *Range Planning and Operations*, 10 July 2007

AFI 13-212\_ACCSUP, *Range Planning and Operations*, 29 April 2010

Joint Pub 3-09, *Joint Fire Support*, 30 June 2010

Joint Pub 3-09.1, *Joint Laser Designation Procedures*

Joint Pub 3-09.3, *Close Air Support*, 8 July 2009

***Abbreviations and Acronyms***

**CAS**—Close Air Support

**CoP**—Community of Practice

**DOD**—Department of Defense

**FBTC**—Fort Bliss Training Complex

**IAW**—In Accordance With

**GAF**—German Air Force

**HE/HEI**—High Explosive/High Explosive Incendiary

**LCD**—Liquid Crystal Display

**LSTSS**—Large Scale Target Sensor System

**LZ**—Landing Zone

**NORDO**—Term indicating No Radio (radio failure)

**NVD**—Night Vision Devices

**RCO**—Range Control Officer

**ROA**—Range Operating Authority

**ROC**—Range Operations Center

**ROO**—Range Operations Officer

**RPA**—Remotely Piloted Aircraft

**SDZ**—Surface Danger Zone

**TP**—Training Projectile

**TPT**—Target Practice Tracer

**USA**—U S Army

**WDZ**—Weapons Danger Zone

**WISS**—Weapons Impact Scoring System

**WSMR**—White Sands Missile Range

## Attachment 2

**LIVE (HE) WEAPON RELEASE REPORT**

(FILED NLT NEXT DUTY DAY)

Scan and Email to: gary.atwell@holloman.af.mil or william.urick@holloman.af.mil

<b>From (Organization)</b>	
<b>Date Weapon Released</b>	
<b>Call Sign</b>	
<b>Weapon Type</b>	
<b>Number Dropped</b>	
<b>Fuse Type</b>	
<b>High Order Detonation Observed</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Direction of Release (Magnetic Heading)</b>	
<b>Approximate Impact Point in Relation to Target 213</b>	
<b>Approximate Impact Coordinates for Impacts Outside Weapons Danger Zone Area</b>	

Attachment 3

WEAPON DANGER ZONE – WORKSHEET

All fields are required except those with an asterisk (\*)

Range (Red Rio/Centennial):

Aircraft:

Munitions:

Live or Inert:

Min Airspeed (in KTAS):

Max Airspeed (in KTAS):

Min Altitude (Ft / AGL):

Max Altitude (Ft / AGL):

Release Distance Min (Ft):

Release Max Distance (Ft):

Dive /Level/Loft:

Release Angle in Degrees Min:

Release Angle in Degrees Max:

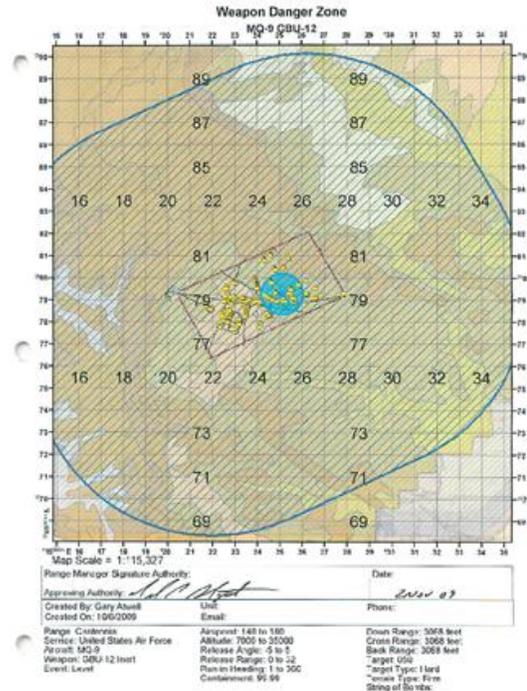
Bomb String Number\*:

Bomb String Spacing (ft)\*:

Bomb Number on Target\*:

Please supply separate worksheets for each intended aircraft and munitions combination. In addition please submit preference(s) or constraints for run-in headings where relevant.

Additional Notes/Information:



For questions or concerns please call the Holloman Range Office, DSN: 572-5088/5074/7781

Worksheet Version: June 2010

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