

**Letter of Agreement
Between
Marine Corps Air Station, Yuma, Arizona
And
Marine Aircraft Group 13
And
Marine Aviation Weapons & Tactics Squadron 1
And
Marine Operational Test & Evaluation Squadron 1**

Subj: AIRSPACE COORDINATION AND CLEARANCE PROCEDURES

Encl: (1) AIRSPACE MAP

1. Purpose. This Letter of Agreement (LOA) establishes an agreement between Marine Corps Air Station (MCAS) Yuma, Marine Aircraft Group 13 (MAG-13), Marine Aviation Weapons & Tactics Squadron 1 (MAWTS-1) and Marine Operational Test & Evaluation Squadron 1 (VMX-1) that defines airspace, procedures, and responsibilities for airspace coordination in support of F-35 long range capability training (Lightning Block).

2. Scope. Airspace Procedures described in this LOA shall be applicable to MCAS Yuma Combined Center Radar Approach Control (Yuma Range CERAP), MCAS Yuma Range Operations (Scheduling) and aircraft assigned to and/or supporting MAG-13, MAWTS-1 and VMX-1

3. Responsibilities.

a. MCAS Yuma:

(1) CERAP shall:

- (a) Ensure all controllers are briefed and comply with procedures in this agreement.
- (b) Ensure procedures are incorporated into Course Rules Briefs.

(2) Range Operations (Scheduling Division) shall:

- (a) Ensure all portions of the Special Use Airspace (SUA) are scheduled as defined in this LOA.
- (b) Ensure all SUA defined in this LOA is clearly communicated to CERAP.

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b. MAG-13 shall:

- (1) Ensure all personnel are briefed and comply with the procedures of this agreement.

c. MAWTS-1 shall:

- (1) Ensure all personnel are briefed and comply with the procedures of this agreement.

d. VMX-1 shall:

- (1) Ensure all personnel are briefed and comply with the procedures of this agreement.

4. Terms.

a. Procedures:

- (1) To the maximum extent possible, pilots should call for activation of the lightning block prior to departing. This may be accomplished through clearance delivery or range control on their assigned frequencies.
- (2) Pilots must request and receive clearance from either Yuma Range Control or Leg Iron prior to entering SUA described in this agreement.
- (3) SUA will be assigned in accordance with the daily range schedule. Clearances that add or subtract from the airspace block defined in this agreement shall be issued by CERAP or Leg Iron separately or by exception.
- (4) MCAS Yuma Range Operations shall ensure all portions of the Lightning Block as defined in this agreement are scheduled concurrently. The daily range schedule shall annotate "Lightning Block" on all scheduled portions of the SUA described in the agreement.
- (5) CERAP shall manage the activation of SUA corresponding with the airspace block depicted in Enclosure 1 when requested by the pilot and in accordance with the daily range schedule.
- (6) Pilots shall operate within the vertical and lateral limits of the associated airspace defined in paragraph 4.b including all additions and exceptions issued by CERAP. Pilots shall request additional SUA clearance from CERAP when their

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mission requires flight beyond their original clearance.

- (7) Procedures for SUA not identified in this agreement shall be managed per applicable orders and directives.
- (8) Aircraft shall notify CERAP of any SUA that will not be used. Unused airspace shall be released for use by non-participating aircraft in accordance with existing real-time joint use procedures.

b. Airspace:

- (1) The Lightning Block is comprised of the following SUA:
 - (a) R-2507 North/South/East: SFC to FL400
 - (b) R-2507 West: SFC to FL230
 - (c) R-2512: SFC to FL230
 - (d) ABEL North MOA/ATCAA: 7,000 MSL to FL400
 - (e) ABEL South MOA/ATCAA: 7,000 MSL to FL400
 - (f) ABEL Bravo MOA/ATCAA: 7,000 MSL to FL400
 - (g) ABEL East MOA: 5,000 MSL to but not including 13,000 MSL
 - (h) KANE East MOA/ATCAA: 10,000 to FL400
 - (i) KANE South MOA: 10,000 to but not including FL180
 - (j) KANE North ATCAA: FL230 to FL400
 - (k) IMPERIAL North/South ATCAA: FL190 to FL400

c. Phraseology:

- (1) Aircraft shall request clearances into SUA using the naming convention in paragraph 4.b.

EXAMPLE:

YUMA RANGE, [CALLSIGN] REQUEST LIGHTNING BLOCK...

- (2) CERAP shall issue SUA clearances with additions or exceptions as necessary. The term "AS AGREED" shall be used when the clearance includes all airspace in the respective block. The term "EXCEPT" shall be used when there are alterations or restrictions to

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the respective block. Other standard ATC terms shall be used as necessary to modify the SUA clearance.

EXAMPLES (NOT ALL INCLUSIVE):

[CALLSIGN] CLEARED INTO LIGHTNING BLOCK AS AGREED..

[CALLSIGN] CLEARED INTO LIGHTNING BLOCK AS AGREED, EXCEPT UNABLE KANE SOUTH..

[CALLSIGN] CLEARED INTO LIGHTNING BLOCK AS AGREED EXCEPT CLEARED INTO ABEL NORTH AND SOUTH MOA 7,000 THRU FLIGHT LEVEL 2 3 0, STAND-BY FOR HIGHER..

5. Points of Contact:

MCAS YUMA AIR TRAFFIC CONTROL Comm: (928) 269-8798 DSN: 269-8798	MAG-13 OPERATIONS OFFICER Comm: (928) 269-3688 DSN: 269-3688	MCAS YUMA RANGE OPERATIONS Comm: (928) 269-6488 DSN: 269-6488
VMX-1 OPERATIONS OFFICER Comm: (928) 269-6742 DSN: 269-6742	MAWTS-1 OPERATIONS OFFICER Comm: (928) 269-3403 DSN: 269-3403	

6. Enclosure 1:

a. Lightning Block

7. Review, Modification, or Cancellation.

a. The agreement shall remain in effect indefinitely and shall be reviewed at least triennially, during the anniversary month. All parties concerned will evaluate the effectiveness and determine a need for continuation or modification to the agreement.

b. The terms of this agreement may be modified by mutual agreement of all parties. Notification of either party to modify or cancel the agreement will be by written notice at least 90 days in advance of the proposed date. Any modification(s) will be recorded in writing and made a part of the basic agreement.

c. In the event of mobilization or national emergency, this agreement may be cancelled, in whole or in part, any time by the installation MCAS Commander, when, in his opinion, the installation's mission or other national security requirements are in jeopardy.

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d. This agreement becomes effective upon the last date of the signatories below.

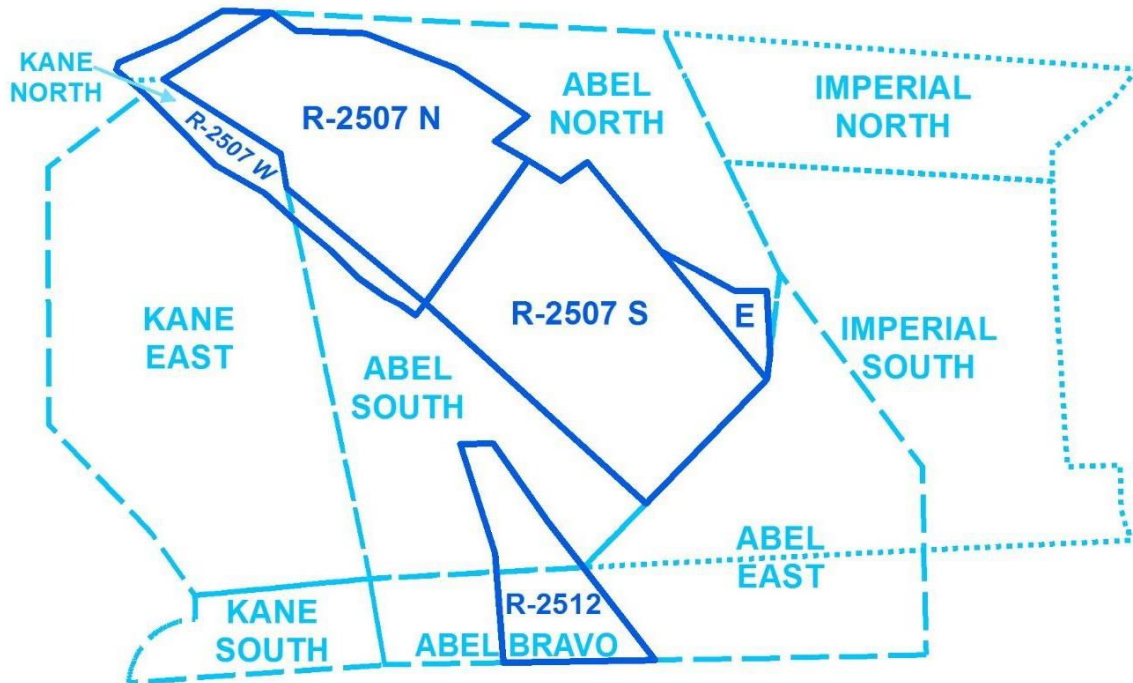
Colonel Charles E. Dudik
Commanding Officer
Marine Corps Air Station Yuma

Colonel Chad A. Vaughn
Commanding Officer
Marine Aircraft Group 13

Colonel Eric D. Purcell
Commanding Officer
Marine Aviation Weapons & Tactics Squadron 1

Colonel Edmund B. Hipp
Commanding Officer
Marine Operational Test & Evaluation Squadron 1

LIGHTNING BLOCK



Lightning Block:

- (a) R-2507 North/South/East: SFC to FL400
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