VIRTUAL NAVAL AIR OPERATIONS

CARRIER AIR WING FOURTEEN (CVW-14)

CARRIER (CV) OPERATIONS STANDARD OPERATIONS PROCEDURES

Version 1.0

GROUND OPERATIONS

PURPOSE:

TO COORDINATE AND CONTROL ALL AIRCRAFT MOVEMENT OF PARKING AND AIRPORT TAXIWAYS. THIS DOES NOT INCLUDE RUNWAYS AND THE TAXIWAYS DIRECTLY ADJACENT FROM THE ACTIVE RUNWAYS.

RESPONSIBILITIES:

- **PROVIDE TAXI CLEARANCE TO ACTIVE RUNWAY TO REQUESTING AIRCRAFT**
- **PROVIDE PROGRESSIVE TAXI GUIDANCE TO AND FROM ACTIVE RUNWAY UPON REQUEST**

FURTHER GUIDANCE:

- **UPON REQUEST, PROVIDE TAXI CLEARANCE FROM PARKING TO ACTIVE RUNWAY**

  - Clearance to taxi to Active Runway

  Example: "A/C, Kobuleti Ground, you're cleared to taxi to runway, altimeter setting 2992"

  - Once aircraft is on taxiway adjacent to active runway, direct frequency handoff to Tower

  Example: "A/C, Kobuleti Ground, contact Kobuleti Tower, button 2"

- **PROVIDE PROGRESSIVE TAXI GUIDANCE TO AND FROM ACTIVE RUNWAY UPON REQUEST**

  If requested provide taxi instructions to/from the runway as needed.

  Example: "A/C, Kobuleti Ground, taxi to runway 25 via taxiways Alpha and Charlie"

AIRFIELD TOWER OPERATIONS

PURPOSE:

TO CONTROL AND DECONFLICT TAKEOFF AND LANDING OPERATIONS OF ALL RUNWAYS AT THE AIRFIELD, AND TO CONTROL ALL AIRSPACE WITHIN 5 NM OF THE AIRFIELD.

RESPONSIBILITIES:

- **DECONFLICT ACTIVE RUNWAY USE WITH REGARDS TO DEPARTING AND ARRIVING AIRCRAFT**

- **UPON REQUEST, PROVIDE TAKEOFF CLEARANCE OF ACTIVE RUNWAY AND DEPARTURE INSTRUCTIONS TO REQUESTING AIRCRAFT**

- **PROVIDE FREQUENCY HANDOFF TO ARRIVING/DEPARTING AIRCRAFT**

SCRIPT:

- **DECONFLICT ACTIVE RUNWAY USE WITH REGARDS TO DEPARTING AND ARRIVING AIRCRAFT**

    - **Before allowing departing aircraft to enter active runway, confirm the following:**

        - No other aircraft are on active runway

        - No aircraft on final approach

        - No aircraft approaching from opposite end

    - **Before giving arriving aircraft clearance to land, confirm the following:**

        - Landing area is clear of aircraft and obstacles

        - No other aircraft are on the runway past the touchdown point

        - Consideration has been made in regards to wake turbulence

    - **Deconflict those aircraft in the pattern around airfield**

        - Safe pattern spacing should be enforced.

        - Deconflict emergency traffic as needed.

- **UPON REQUEST, PROVIDE TAKEOFF CLEARANCE OF ACTIVE RUNWAY AND DEPARTURE INSTRUCTIONS TO REQUESTING AIRCRAFT**

    - Clearance to enter Active Runway

Example: "A/C, Kobuleti Tower, lineup and wait, Runway 2-5"

- Clearance for takeoff

Example: "A/C, Kobuleti Tower, winds 270 at 10, you're cleared for takeoff runway 2-5, maintain runway heading, climb to angels 5, departure button 5"

- **PROVIDE FREQUENCY HANDOFF TO DEPARTING AIRCRAFT**
    - Once aircraft is approx. 5 NM from the airfield, execute handoff to Departure.

Example: "A/C, Kobuleti Tower, contact Kobuleti Departure, button 5"

APPROACH & DEPARTURE OPERATIONS

PURPOSE:

TO CONTROL AND DECONFLICT ALL APPROACHING & DEPARTING AIRCRAFT THAT ARE OUTSIDE OF TOWER CONTROL, BUT WITHIN 20 NM OF THE AIRFIELD.

RESPONSIBILITIES:

- **VECTOR DEPARTING AIRCRAFT OUT OF AIRPORT AIRSPACE**
- **VECTOR APPROACHING AIRCRAFT TO INITIAL APPROACH FIX OF ACTIVE RUNWAY**

SCRIPT:

- **VECTOR DEPARTING AIRCRAFT OUT OF AIRPORT AIRSPACE**
    - **Once A/C has checked in, provide initial outbound heading and requested altitude**

    Example: "A/C, Kobuleti Departure, turn right heading 3-2-5, climb and maintain angels 25"

    - **Once A/C has reached 20 NM from the airfield, direct frequency handoff to Center:**

    Example: "A/C, Kobuleti Departure, contact center, button 6"

- **VECTOR APPROACHING AIRCRAFT TO INITIAL APPROACH FIX OF ACTIVE RUNWAY**
    - **Once A/C has checked in, provide the following:**
        - Vectors to Active Runway

- Altimeter setting

- Initial heading and altitude (continue to update as needed)

Example: "A/C, Kobuleti Approach, expect vectors to straight in, Runway 25, altimeter 2992, turn right, heading 2-7-0, descent and maintain angels 5"

- **Once A/C has reached the IAF direct the following:**

  - Advise A/C of which clock position the airport should be seen and advice when A/C has runway in sight

  - Once runway in sight has been reported, A/C to contact tower on freq_

Example: "A/C, Kobuleti Approach, airports should be at your 12 O'Clock, advise when you have runway in sight"

once sighted: "A/C, Kobuleti Approach, contact Kobuleti approach, button 1"

CENTER OPERATIONS

<u>**PURPOSE:**</u>

TO CONTROL AND DECONFLICT ALL TRAFFIC WITHIN AREA.

<u>**RESPONSIBILITIES:**</u>

- **PROVIDE ASSIGNMENT AND INITIAL VECTORS AND ALTITUDES TO REQUESTED TANKERS**

- **PROVIDE INITIAL VECTORS TO TERMINAL FACILITIES (I.E. AIRPORTS, CARRIERS, ETC)**

- **PROVIDE FREQUENCY HANDOFF ONCE AIRCRAFT IS WITHIN TERMINAL AIRSPACE (I.E. AIRPORT OR CARRIER)**

FURTHER GUIDANCE:

- **PROVIDE ASSIGNMENT AND INITIAL VECTORS AND ALTITUDES TO REQUESTED TANKERS**

  - **Select the tanker that is closest to A/C and not in use**

  - **Provide initial vectors to tanker and assign altitude that the tanker is orbiting :**
    - *"A/C, Center, vectors to Arco Tanker, KC-135 MPRS, left, heading 1-8-5, angels 15, contact tanker button 7"*

MARSHALL OPERATIONS

PURPOSE:

CONTROL AND DECONFLICT ALL APPROACHING & DEPARTING AIRCRAFT THAT ARE OUTSIDE OF CARRIER TOWER CONTROL, BUT WITHIN 30 NM OF THE CARRIER.

RESPONSIBILITIES:

- **VECTOR APPROACHING AIRCRAFT INTO THE MARSHALL STACK**

- **MANAGE AIRCRAFT IN MARSHALL STACK BY ASSIGNING INITIAL STACK ALTITUDES, DESCENDING CLEARANCES, EXPECTED APPROACH TIMES, AND SIGNAL CHARLIES.**

- **PROVIDE ASSISTANCE AS NEEDED TO AND FROM TANKER**

- **PROVIDE FREQUENCY HANDOFF TO TOWER/CENTER AS REQUIRED**

SCRIPT:

- **AFTER INITIAL CHECK IN FROM AIRCRAFT, PROVIDE THE FOLLOWING:**

  - Mother's weather

    - Visibility

    - Cloud Cover

  - Altimeter Setting

  - Type of Recovery expected (CASE I in this case)

  - Mother's BRC

- Assigned Stack Altitude

- Expected Charlie Time

- Report "See Me" at 10 NM

Example: "A/C, Mother's weather is, Visibility is 10+ miles, clear, altimeter is 2993, CASE I Recovery expected, BRC 2-6-3, Enter stack Angels 3, with an expected push time plus 1-5, Report See Me at 10"

- **AFTER AIRCRAFT REPORTS "SEE ME" AT 10 NM, PERFORM THE FOLLOWING:**

  - Confirm A/C at assigned altitude

  - Frequency handoff to Tower Control

  Example: "A/C, roger. Update low state, contact tower, button 5"

CASE I MARSHAL TRACKER						
SHIP NAME			**TOWER COMMS:** BTN:		FREQ:	
MOTHER'S WEATHER:			**VISIBILITY:**	**ALTIMETER:**	**RECOVERY TYPE:**	**BRC:**
FLT ID	**FLIGHT CALLSIGN**	**NUMBER IN FLIGHT**	**LOW FUEL STATE**	**ALTITUDE ASSIGNED**	**CHECK IN TIME**	**EXPECTED CHARLIE TIME**
0	VICTORY 1	3	3.5	3	+15	+30
1						
2						
3						
4						
5						

DECK OPERATIONS

PURPOSE:

MANAGE AND COORDINATE ALL AIRCRAFT ON THE DECK OF THE AIRCRAFT CARRIER. THIS INCLUDES LAUNCHING AND RECOVERING AIRCRAFT.

RESPONSIBILITIES:

- **ANNOUNCE CHANGES IN STATUS OF LANDING AREA**

- **DIRECT RECENTLY TRAPPED AIRCRAFT OF PROPER CONFIGURATION CHANGES AND TAXI THEM SMARTLY AWAY FROM THE LANDING AREA**

- **DIRECT AIRCRAFT READY TO LAUNCH TO APPROPRIATE CATAPULTS**

- **ASSURE AIRCRAFT THAT ARE CONNECTED TO THE CATAPULT ARE PROPERLY CONFIGURED FOR LAUNCH**

- **CLEAR AIRCRAFT TO LAUNCH OFF THE CATAPULT ONLY WHEN DECONFLICTED WITH THOSE THAT ARE ALREADY IN OR ENTERING INTO THE LANDING PATTERN**

SCRIPT:

- **ANNOUNCE CHANGES IN FOUL/CLEAR STATUS OF LANDING AREA.**

    - Announce "Foul Deck" over the "5MC" anytime the deck foul lines have been breached.

    - Announce "Deck's Clear" over the "5MC" once the Landing Area is clear of all hazards.

- **CONFIGURE & CLEAR RECENTLY TRAPPED AIRCRAFT AWAY FROM THE LANDING AREA.**

    - After coming to a halt, direct recovered aircraft to do the following:

        - Raise Hook

        - Fold Wings

        - Anti-skid On

        - Taxi Clear of the Landing Area

    Example: *"A/C raise hook and flaps, fold wings, turn anti-skid on and taxi clear of the landing area"*

- **DIRECT AIRCRAFT TO APPROPRIATE DECK OPERATIONS AREAS**

- **Launching Aircraft:** Line all aircraft that are ready for launch, behind catapult 1. Those waiting to launch will line up on the "6 Pack". <u>Catapults 2, 3 and 4 will not be used during CV Ops.</u>

- **Refueling Aircraft:** Place all aircraft needing to refuel on the "Corral"

- **Parking Aircraft:** Place all aircraft that will be parking or shutting down on the port side of the bow, along catapult 2. If catapult 2 is full, place remaining aircraft aft of the island

Example (taxi to cat): "A/C taxi, hook up, and hold Cat 1"
Example (taxi and wait): "A/C taxi behind and wait Catapult 1"
Example (taxi to refuel): "A/C taxi to Corral for refueling, advise when ready to launch"
Example (taxi to parking): "A/C taxi to parking located portside of the bow, along Cat 2"

- **ASSURE AIRCRAFT CONNECTED TO THE CATAPULT ARE PROPERLY CONFIGURED FOR LAUNCH**

    - Confirm aircraft hooked up to the catapult

    - Confirm wings unfolded and locked

    - Confirm flaps are set for takeoff

    - Confirm trim is set to correct position

    - Confirm controls wipeout has been completed

- **CLEAR AIRCRAFT TO LAUNCH OFF THE CATAPULT ONLY WHEN DECONFLICTED WITH THOSE THAT ARE ALREADY IN OR ENTERING INTO THE LANDING PATTERN**

    - **Do Not Launch Aircraft Under the following conditions:**

        - **Aircraft In the Groove:** Assure there are no aircraft currently in the groove. Do give clearance to launch once "Ball Call" has been made. Clearance to launch can be given once aircraft in groove has been safely recovered. If recovering aircraft has boltered, wait 30 seconds before granting clearance to launch.

        - **Full Pattern:** Do not launch aircraft if the landing pattern is already full. The landing pattern can only hold a max of 6 aircraft.

        - **Aircraft Inbound For the Break:** If aircraft are inbound for the break, do not give clearance to launch until breaking aircraft has already passed the bow of the ship, or has already broken, whichever occurs first.

    - Provide clearance for aircraft to launch off of aircraft

Example: "A/C, your cleared to launch, Catapult 1"