AIR DEFENSE COMMAND
580TH AIRCRAFT CONTROL AND WARNING WING
Wallace Air Station, City of San Fernando, La Union

ODO

STANDING OPERATING PROCEDURE
NUMBER 2022 - 03

BATTLE CONTROL CENTER (BCC) DUTIES AND RESPONSIBILITIES

1. REFERENCES:

a. Air Surveillance and Aircraft Control (ASAC) Manual;

b. 169TH ACWS Operating Instruction 10-1 dated 18 April 2001; and

c. Department of the Air Force Manual 13-1 AOC, Volume 3, Operational Procedures- Air Operations Center (AOC) Operations Center (OC), dated 18 Dec 2020.

2. PURPOSE:

This SOP aims to establish the Battle Control Center (BCC) Crew duties and responsibilities.

3. SCOPE:

This SOP applies to all ACWGs Command and Control managed Areas of Responsibilities (AORs).

4. DEFINITION OF TERMS:

a. Battle Control Center (BCC) - the focal point for the conduct of weapons, surveillance, link, and identification functions. It is tasked to support the ADC/580th ACWW and PADCC mission.

b. Aircraft Control - primarily done by Air Weapons Controllers. These are individuals especially trained for and assigned to the duty of employing and controlling air weapon system against airborne objects.

c. Air Surveillance - is the systematic observation of airspace by electronic, visual, or other means. Its purpose is to provide and maintain an up-to-date and complete air picture to identify and determine the movements of aircraft and missiles both friendly and foe in the Philippine airspace.

d. Command and Control (C2) - is the backbone of the PADS. It is the process of planning, coordinating, directing, and controlling air assets in air defense operations. It ensures safe, effective, and flexible use of airspace for military and civilian air operations.

5. POLICIES:

a. The Air Defense Direction Center (ADDC) will be replaced by the BCC organizational structure, manning requirements, positional designation, and skill qualification.

b. **Focal** Person for all Administrative concerns/ issues of a Radar Site will be the Group Commander (GC); while all BCC Operational concern/ issues/ disseminations will be thru the Mission Crew Commander (MCC).

c. This SOP must be posted in all BCCs and WOC. Likewise, duty BCC Crew are required to read this SOP every posting, particularly on their respective duties and responsibilities.

d. Each BCC Crew must abide by the provisions of this SOP. Instructions not covered by this SOP should emanate from Authorized and Competent Authority (see attached).

6. PROCEDURES:

a. BCC Manning (routine/ full) will be determined by the Duty MCC based on the alert level status.

b. Radar Site GC's will furnish WOC with the Week's BCC Crew Detail, every Saturday, NLT than 0800H. Any changes in the said Detail must be duly approved by the GC and subsequently be noted by DO.

c. GC's are responsible for the readiness and completeness of their respective BCC Crew.

d. Duty MCC will immediately inform PADCC of any Alert Condition/ Alert Conditions changes, for the latter's appreciation/ appropriate action.

7. RESPONSIBILITY:

a. Mission Crew Commander (MCC)

1) The MCC is responsible for the supervision of the BCC. The MCC is responsible for the conduct of all air sovereignty/air defense operations, training, and emergency actions within their Sector during the duty shift In Accordance With (IAW) directives and/ approved TTP's.

2) Be knowledgeable of the duties and responsibilities of the Senior Director, Mission Crew Commander Technician, Emergency Action Coordinator, Air Surveillance Technician, Identification Technician, Interface Control Technician, and other crew functions.

3) Be knowledgeable of governing instructions, manuals, directives, and other pertinent documents and ensures compliance IAW directives.

4) Be knowledgeable of and conform to all current operational directives, policies, and checklist/guides.

5) Implement and execute procedures relating to alert systems.

6) Provide overall direction of Flush and Tactical Action Procedures directed by the PADCC.

7) Ensure receipt of a thorough pre-duty briefing on all aspects of operational activities.

8) Brief the Senior Director, and key personnel on the activities for the day.

9) Ensure inventory of classified documents are completed each shift.

10) Initiate recall procedures as established IAW directives.

11) Ensure coordination with other controlling agency are completed during Active Air Defense through PADCC.

12) Ensure necessary radios and equipment is monitored.

13) Check and sign Mission Crew Commander Shift Report.

14) Ensure MCC logbook is accurately maintained.

b. Mission Crew Commander Technician (MCCT)

1) Collect and display air defense data in coordination with PADCC.

2) Be knowledgeable of governing instructions, manuals, and directives and other pertinent documents and ensures compliance IAW directives.

3) Accomplish communications checks with PADCC.

4) Use appropriate authenticators to challenge/reply and encode/decode messages using operations codes when required.

5) Monitor all operations logs for timely and accurate entries during each assigned work period.

6) Assists MCC in accurately maintaining MCC logbook.

7) Notify all other BCC Support Sections of any DEFCON and ADEFCON changes.

c. Senior Director (SD)

1) Be knowledgeable of the duties and responsibilities of the Senior Director Technician (SDT), Weapons Directors (WD).

2) Be responsible to the MCC for battle management and the use of the air defense assets deployed/ assigned in the Area of Responsibility (AOR).

3) Keep the MCC informed on the progress of assigned intercepts.

4) Advise PADCC of imminent threats (unknown/ hostile tracks) and recommends scramble (if applicable).

5) Supervise the SDT, and WD for the employment of resources during wartime/peacetime missions.

6) Conduct briefings and debriefings IAW briefing standards.

7) Assign radios and frequencies to weapons teams.

8) Assign WDs to air defense assets.

9) Ensure all information displayed on the Status Board is current and accurate.

10) Ensure SD logbook is accurately maintained.

d. Senior Director Technician (SDT)

1) Be knowledgeable of the duties and responsibilities of the Weapons Director Technician (WDT).

2) Assists the Senior Director in the timely commitment of weapons assets.

3) Assists the SD in maintaining a current and accurate status board display.

4) Forward airborne orders/scramble orders to the appropriate WD position(s).

5) Coordinate with external agencies as needed or directed by SD.

6) Coordinate airspace requests for Weapons section through PADCC.

7) Record all neutralization of hostile targets.

8.) Assists SD in accurately maintaining SD logbook.

e. Weapons Director (WD)

1) Be knowledgeable of the duties and responsibilities of the Weapons Director Technician.

2) Responsible to the SD for effective control of all assigned interceptors and utilization of assigned weapons assets during wartime/peacetime operations.

3) Monitor detection, tracking and identification of targets within designated areas.

4) Be thoroughly familiar with all required SOPs and standards for safety of flight.

5) Be thoroughly familiar of emergency situations and local procedures.

6) Recognize emergency and hijack aircraft situations, implement notification recovery procedures, and perform emergency aircraft actions IAW directives.

7) Be familiar with the capabilities and limitations of communications, control facilities and other weapons systems employed for mission accomplishment.

8) Review the daily Air Tasking Order (ATO) and any other source available for all missions affecting the AOR.

9) Understand the status of alert, readiness, warning and Standing Rules of Engagement (SROE) within the operational commands' areas of responsibility.

10) Possess a thorough knowledge of authenticator procedures.

11) Know the characteristics and capabilities of the threat.

12) Know the tactics described in appropriate tactic manuals. Employ as the tactical situation dictates.

13) Know and complies with airspace control procedures to include IMTAs, free fire zones, alternate airfield/aerodrome status, etc.

14) Know the responsibilities and procedures associated with assigned airspace AOR.

15) Interpret alert status for air defense aircraft and identifies aircraft availability IAW directives.

16) Responsible for the safe and expeditious recovery of aircraft when directed.

17) Responsible for the safe handoff of interceptors from adjacent workstations/ Sensor Site/ Agencies.

18) Be thoroughly familiar with current ICAO policies and procedures.

19) Interpret weather information and provides updates to aircrews upon notification of weather changes affecting mission aircraft IAW directives.

20) Be thoroughly familiar with surrounding terrain, capabilities and limitations of the fighter/ transport aircraft, as well as that of the primary ground environment and its associated equipment.

21) Advises other WDs of any action taken which might adversely affect the interceptors under their control.

22) Complete the pilot/ director GCI log as appropriate. Debriefs the mission with the aircrew(s) and brings any problems encountered to the attention of the MCC/SD.

23) Responsible for the commit of air defense assets to all possible or known airborne threats.

f. Weapons Director Technician (WDT)

1) The WDT is directly responsible to the WD.

2) Be thoroughly familiar with all required SOPs and standards for safety of flight.

3) Possess thorough knowledge of applicable authenticators.

4) Record all information pertinent to the mission, including airborne, Radar and Radio (R/R) times, armament status, fuel status, tactical actions, aircraft status in the mission log.

5) Accomplish all mandatory coordination and reporting calls to PADCC before, during and after an intercept mission.

g. Identification Technician (IDT)

1) The IDT is directly responsible to the MCC for the timely and accurate identification of all tracks within the PDAO.

2) Ensure accurate identification of all tracks within the Philippine Air Defense Identification Zone (PADIZ).

3) Be knowledgeable of friendly identification criteria, identification procedures, safe passage criteria, and message handling procedures.

4) Classify tracks within two minutes from time of detection or PADIZ penetration.

5) Immediately notify MCC of tracks with no flight plans or prior coordination.

6) Classify tracks as “Unknown” and notify MCC if it does not meet “Friendly” identification criteria.

7) Coordinate with CAAP through PADCC to resolve or assist in Aircraft Emergency situations.

8) Be knowledgeable of Track of Interest.

9) Conduct required briefings in accordance with established procedures.

h. Air Surveillance Technician (AST)

1) Be knowledgeable of the duties and responsibilities of the Tracking Technician.

2) The AST is directly responsible to the MCC.

3) Maintain an accurate optimal air picture within the Area of Responsibility (AOR).

4) Monitor radar data inputs and control data quality and quantity to optimize tracking data and minimize excess data.

5) Monitor Situation, Tabular and Radar Inputs displays to assess system performance.

6) Detect, analyze and report hardware/software discrepancies to C2 maintenance personnel.

7) Analyze the surveillance system and advise the MCC of capabilities, limitations and operational impact of radar problems.

8) Manage all air surveillance functions and personnel within their section.

9) Be knowledgeable with Radar Data Interface System (RDIS).

10) Analysis and Monitoring System to assist radar maintenance in troubleshooting any degradation to a radar site.

11) Supervise surveillance personnel.

12) Possess a thorough knowledge of all applicable authenticators and secure telephone procedures.

13) Be knowledgeable of COMSEC material and encryption devices.

14) Ensure AST logbook is accurately maintained.

15) Conduct required briefings in accordance with established procedures.

i. Tracking Technician (TT)

1) Be responsible to the AST for performing tracking (active and passive), in their AOR.

2) Take corrective actions to improve tracking.

3) Monitor and report track data changes, updates and maneuvers.

4) Understand and executes multiple flight size (stack/split) track procedures.

5) Be knowledgeable of emergency/ hijack aircraft procedures.

6) Be knowledgeable of Air-To-Surface Missile (ASM) and Anti-Radiation Missile (ARM) procedures.

j. Interface Control Technician (ICT).

1) The ICT is responsible to the MCC.

2) Initiate data links with participants, monitoring the quality and quantity of track data received from and transmitted to external agencies to maintain an accurate combined comprehensive air picture.

3) Responsible for the configuration and operation of the data link, and interfacing equipment. Coordinates with external units to ensure Link-16 is operating effectively.

4) Responsible for all data link functions, depicting current reporting responsibility and identification.

5) Perform mission planning with Naval Forces and land-based Interface Units IAW directives.

6) Attend briefings/debriefings and provides necessary information for operations of the data link.

7) Coordinates and reports all requirements, mission changes, equipment discrepancies and limitations.

8) Select and operate datalinks and HF/ UHF communications equipment for voice, secure voice, and data IAW performance capabilities, antenna configurations and limitations, mission tasking and directives.

9) Be knowledgeable of classified documents, COMSEC material, authenticators, encryption/decryption procedures and crypto keylist usage IAW directives.

10) Analyze signal characteristics of messages and assess the capability of link participants to perform required functions. Identifies defects of any link system that fails to establish and maintain link communications.

11) Troubleshoot data link equipment and apply diagnostics testing and implements actions to ensure effective data and information exchange.

12) Ensure communication links with PADCC is stable to have clear air picture.

13) Conduct required briefings in accordance with established procedures.

14) Ensure ICT logbook is accurately maintained.

k. Emergency Action Coordinator (EAC)

1) The EAC is operationally responsible to the MCC on a daily basis until the BS is formed. When the BS is formed, the EAC becomes responsible to the Chief, Air Surveillance. This duty position is the focal point for all information into and from the PADCC.

2) Update changes in air defense status including updating status board.

3) Implement DEFCON and SROE procedures.

4) Disseminate message traffic and lateral reports.

5) Prepare and transmit the attainment report to the BS.

6) Review and process all messages received through official communication lines, to include Standing Rules of Engagement (SROE), all Intelligence messages for disposition by the MCC.

7) Monitor open intelligence sources (Internet, TV, Radio, Print and other open-source media).

8) Operate encryption/decryption devices and other operator tasked equipment IAW directives.

9) Ensure EAC logbook is accurately maintained.

8. RESCISSION:

All other SOP in conflict with this is hereby rescinded.

9. EFFECTIVITY:

This SOP shall take effect upon approval.

BY COMMAND OF BRIGADIER GENERAL PEDREGOSA:

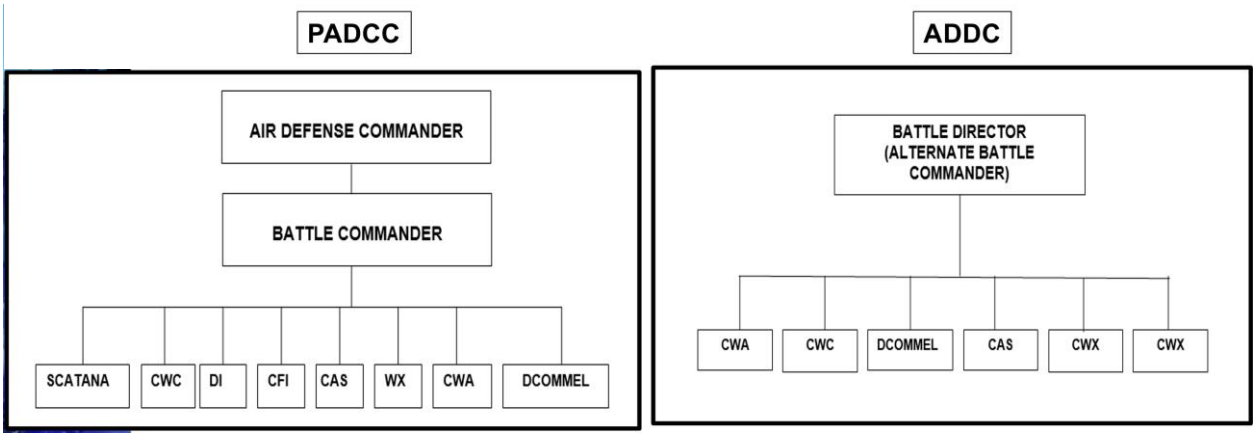
OFFICIAL:

LUIS RAMON V DE LEON
Colonel, PAF (GSC)
Deputy Wing Commander

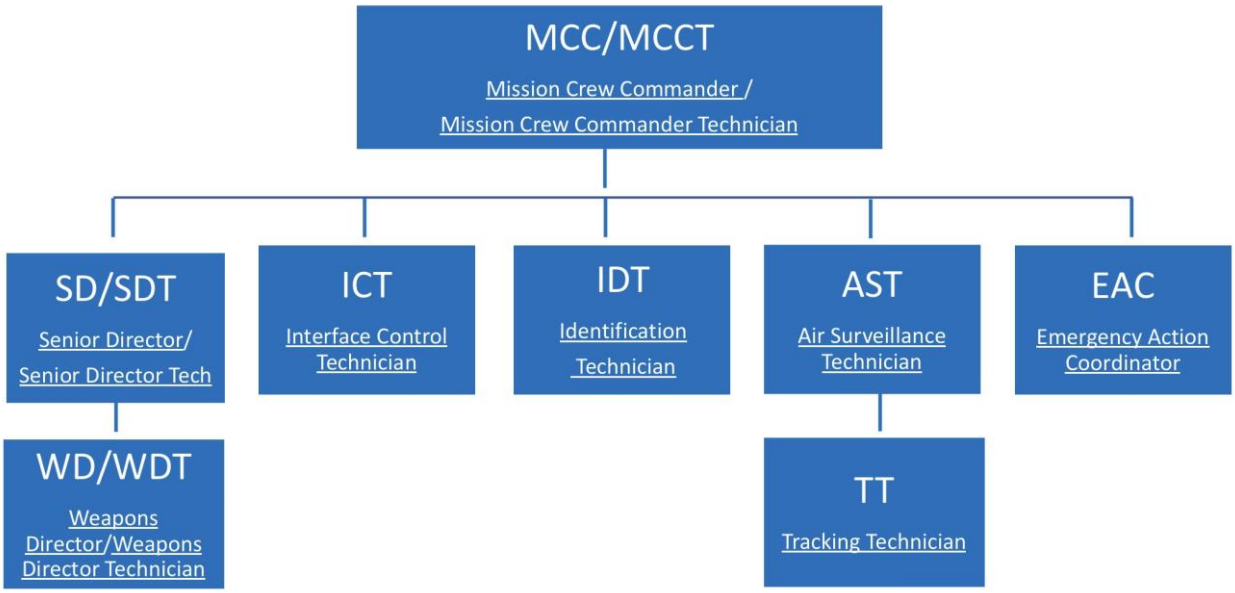
MARVIN JASPER A BALIZA
1LT, PAF
Wing Adjutant

BATTLE CONTROL CENTER (BCC)

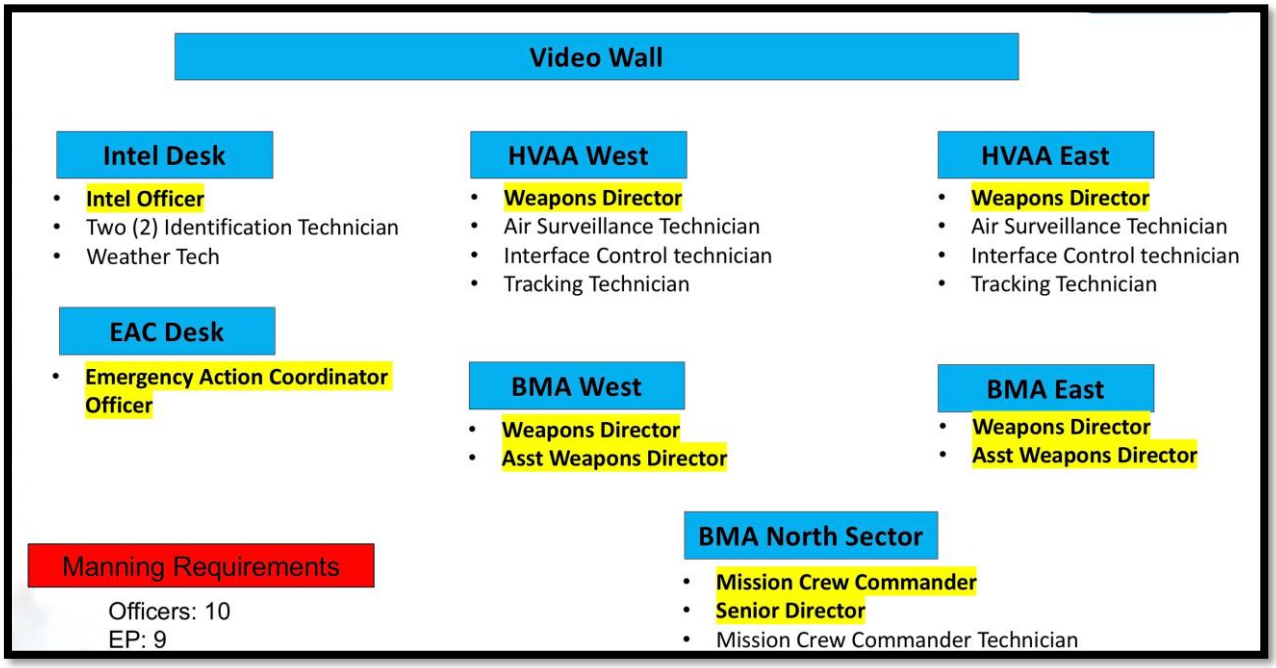
Current C2 and Sensor Organizational Structure



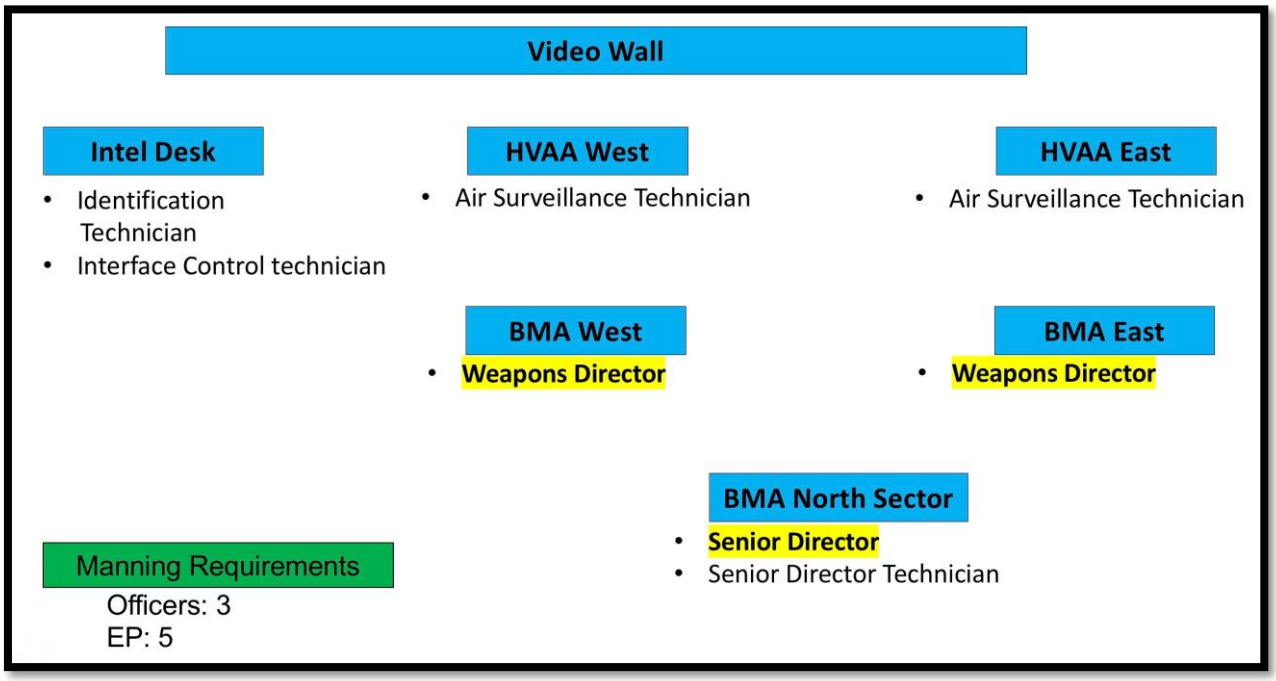
Battle Control Center Manning



BCC Floor Plan - Full Manning



BCC Floor Plan -Normal Manning



BBC Manning Requirements

Designation	WAS	PAS	GAS	SAS	Reserve	Total
MCC	2	2	2	2	4	12
SD	2	2	2	2	4	12
WD Level 1	6	6	6	6	12	36
WD Level 2	4	4	4	4	8	24
Total	**14**	**14**	**14**	**14**	**28**	**80**

ABM Classification

ADDC Operational Position	Qualification/ Training	Experience/ Skill	Knowledge	AWC Badge Rating (Desired)
Mission Crew Commander	TAOC	80 Intercepts LFE Multi Type Platform 10,000hrs C2 Duty	LFE and 4V4 TTPs Multiple Type Platform Capability Multiple Type Radar Capability EA, EP, ES Advance TDL-16	Command
Senior Director	TAOC	40 Intercepts Mini LFE Multi Type Platform 8,000hrs C2 Duty	Mini LFE and 4V4 TTPs Multiple Type Platform Capability Multiple Type Radar Capability EA, EP, ES Advance TDL-16	Senior
Weapons Director Level 2	ABM	20 Intercepts 5 4V4 5 3V4 Multi Type Platform 4,000hrs C2 Duty	4V4 TTPs Multiple Type Platform Capability Multiple Type Radar Capability Basic TDL-16 Basic EW	Basic
Weapons Director Level 1	AWCC	10 Intercepts 2 2V2 3 2V1 5 1V1 Single Type Platform 2,000hrs C2 Duty	1V1 and 2V2 TTPs Single Type Platform Capability Single Type Radar Capability	