

TYPHOON (ALL MARKS)

MISSION OPERATING PROCEDURES

Amendment Information

This electronic publication represents the latest/
current at time version of the publication and
includes:

Issue

Issue 3

AL

0

ANA

-

TYPHOON (ALL MARKS)

MISSION OPERATING PROCEDURES

AIRCRAFT ARMING STATES

Initially Armed: All safety devices, other than those set to the LIVE condition in accordance with an approved schedule before or during loading, have been set to the SAFE condition.

Finally Armed: All those safety devices required to be in the LIVE condition have been set to that condition before the aircraft Captain accepts the aircraft for flight.

Combat Armed: The aircraft has been accepted for flight by the aircraft Captain and all safety devices required by the Flight Crew Checklist to be set to the LIVE condition before take-off have been set to that condition.

Approved by Typhoon Force STANEVAL

Prepared by Handling Squadron

NOTES TO USERS

1. These Mission Operating Procedures (MOPs) are complementary to the Typhoon Aircrew Manual (AP101B-5400-15A) and the Flight Crew Checklist (AP101B-5400-14). The same conventions are used and the amendment procedure is similar.

2. The data included in these MOPs reflects the best advice currently available. Further trials and operational experience may result in changes to these MOPs. All data published in the Typhoon Release to Service takes precedence over that published in these MOPs.

3. For each weapon there is both a diagram at the top of the page and an associated set of External Checks below. If a step number on the checklist is circled, eg ①, then that item is annotated on the main diagram.

4. Comments and suggestions regarding these MOPs should be progressed using a F765X forwarded to Typhoon STANEVAL, RAF Coningsby, Lincs, LN4 4SY

LIST OF CARDS AT ISSUE 3

MOPS 1	Issue 3	MOPS 31	Issue 3
MOPS 3	Issue 3	MOPS 33	Issue 3
MOPS 5	Issue 3	MOPS 35	Issue 3
MOPS 7	Issue 3	MOPS 37	Issue 3
MOPS 9	Issue 3	MOPS 39	Issue 3
MOPS 11	Issue 3	MOPS 41	Issue 3
MOPS 13	Issue 3	MOPS 43	Issue 3
MOPS 15	Issue 3	MOPS 45	Issue 3
MOPS 17	Issue 3	MOPS 47	Issue 3
MOPS 19	Issue 3	MOPS 49	Issue 3
MOPS 21	Issue 3	MOPS 51	Issue 3
MOPS 23	Issue 3	MOPS 53	Issue 3
MOPS 25	Issue 3	MOPS 55	Issue 3
MOPS 27	Issue 3		
MOPS 29	Issue 3		

ANA INCORPORATED

ANA No						
Location						

All ANA from previous issues are incorporated. Subsequent ANA are to be incorporated in the manuscript and recorded above.

LIST OF CONTENTS

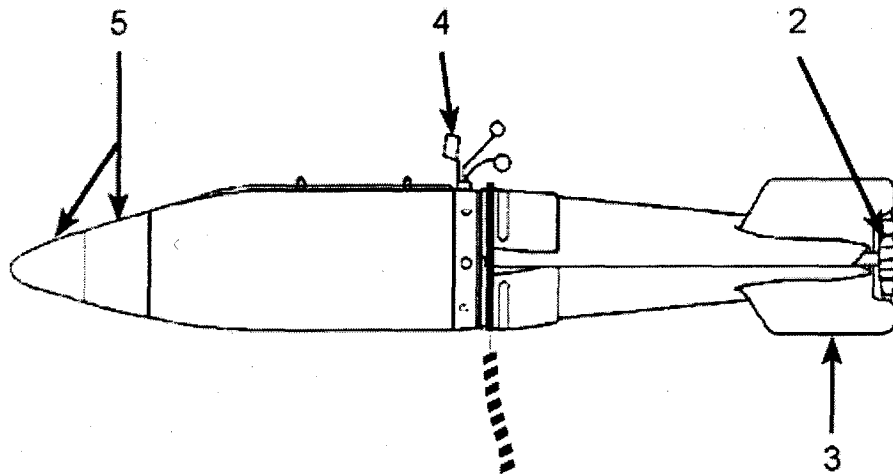
MOPS-1/2	Cover/Notes to Users/List of Cards
MOPS-3	List of Contents
MOPS-4	Aircraft Armed States
MOPS-5	1000lb Slick Bomb
MOPS-7	Paveway IV
MOPS-9/10	Enhanced Paveway II & Paveway II
MOPS-11	Litening II LDP
MOPS-13/14	ASRAAM
MOPS-15/16	AMRAAM
MOPS-17	Mauser 27mm
MOPS-19	Domestic Planning
MOPS-20/21	Evasion Grades
MOPS-22	Rules of Combat
MOPS-23-25	Fighting Edge Training Rules
MOPS-27	LDP and PW Coordination Proforma
MOPS-29	Typhoon Force Authorisation Codes
MOPS-31	Telephone Briefing Proforma for Affiliation
MOPS-32	Air Combat Brief
MOPS-33	Telephone Numbers
MOPS-34	ASACS/AWACS Sortie Briefing Form
MOPS-36/37	Outbrief
MOPS-38	Inbrief
MOPS-39	4-Ship Domestics
MOPS-40	4-Ship Tactical Domestics
MOPS-42	Typhoon SOP Briefing Guide
MOPS-43	SOP Briefing Guide - SPINS
MOPS-44	SOP Briefing Guide - DCA
MOPS-45	SOP Briefing Guide - OCA/Self Escort
MOPS-46	SOP Briefing Guide - Air Interdiction
MOPS-47	SOP Briefing Guide - Attack
MOPS-48/49	SOP Briefing Guide - CAS
MOPS-50	SOP Briefing Guide - Range
MOPS-51	SOP Briefing Guide - Range/Range Cards
MOPS-52	SOP Briefing Guide - QRA
MOPS-53	SOP Briefing Guide - VID
MOPS-54/55	COMAO Briefing Guide
MOPS-56	Time Slice

**LIST OF
CONTENTS**

AIRCRAFT ARMED STATES

Aircraft/ Store	Safety Device	Initially Armed	Finally Armed	Combat Armed
Aircraft Weapon System	MASS	SAFE	SAFE	LIVE
	ERU Safety Handles	SAFE	SAFE	UNSAFE
Supersonic Fuel Tank	Tank Ejector Unit Safety Handles	SAFE	SAFE	ARMED
Integrated Tip Stub Pylon Launcher	Safety Pin	Fitted	Removed	Removed
Multi Function Rail Launcher	Safety Pin	Fitted	Removed	Removed
Missile Eject Launcher	Safety Pin	Fitted	Removed	Removed
Paveway IV	Seeker Head Protective Cover	Fitted	Removed	Removed
	Battery Firing Pin Safety Wire	Fitted	Removed	Removed
	Wing Release Latch Lever Safety Pin	Fitted	Removed	Removed
	Wing Fairing Assembly Safety Pin	Fitted	Removed	Removed
Enhanced Paveway II / Paveway II	Seeker Head Protective Cover	Fitted	Removed	Removed
	Battery Firing Pin Safety Wire	Fitted	Removed	Removed
	Wing Release Latch Lever Safety Pin	Fitted	Removed	Removed
	Wing Fairing Assembly Safety Pin	Fitted	Removed	Removed
Litening III LDP	Pod Safety Switch	SAFE	ARMED	ARMED
ASRAAM	IR Dome Protective Cover	Fitted	Fitted	Removed
	Laser Fuse Protective Cover	Fitted	Fitted	Removed
	Control Fin Protective Covers (4)	Fitted	Fitted	Removed
Mauser Gun 27mm	Gun Electrical Lead	Disconnected	Connected	Connected
Towed Radar Decoy Dispenser	Safety Pin	Fitted	Fitted	Removed
	TRD Safety Nut	Fitted	Fitted	Removed
55mm Flare Dispenser	Flare Dispenser Safety Pin	Fitted	Fitted	Removed

**1000lb SLICK BOMB (114/117 TAIL),
960 FUSE (IMPACT/AIRBURST)**

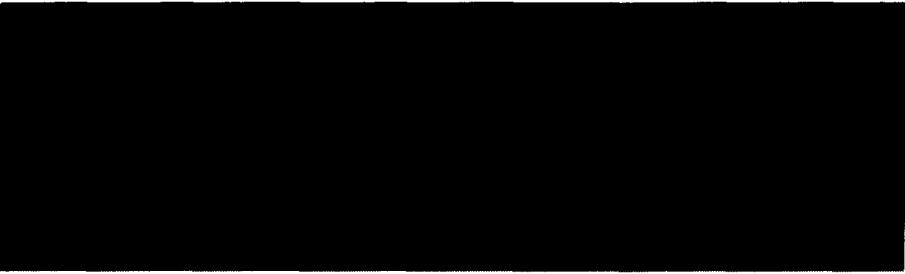
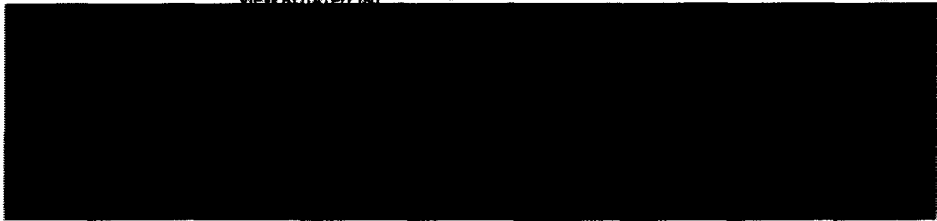
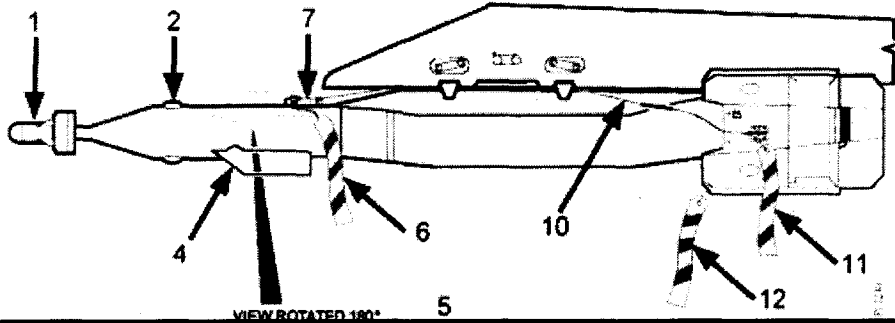


External Checks

- 1. Arming lanyard Connected to tail EM fuzing point
[REDACTED]
 - 2. Arming vane Locked, does not rotate
(2-3mm play acceptable)
 - 3. Fins Condition
 - 4. LEFA Connected to rear fuze connector
[REDACTED]
 - 5. Proximity sensor Nose plug, fairing and harness
secure
 - 6. Throttle settings Set as above
- Combat arm:*
- 7. ERU safety handle.... UNSAFE

Intentionally Blank

PAVEWAY IV



PW IV

External Checks

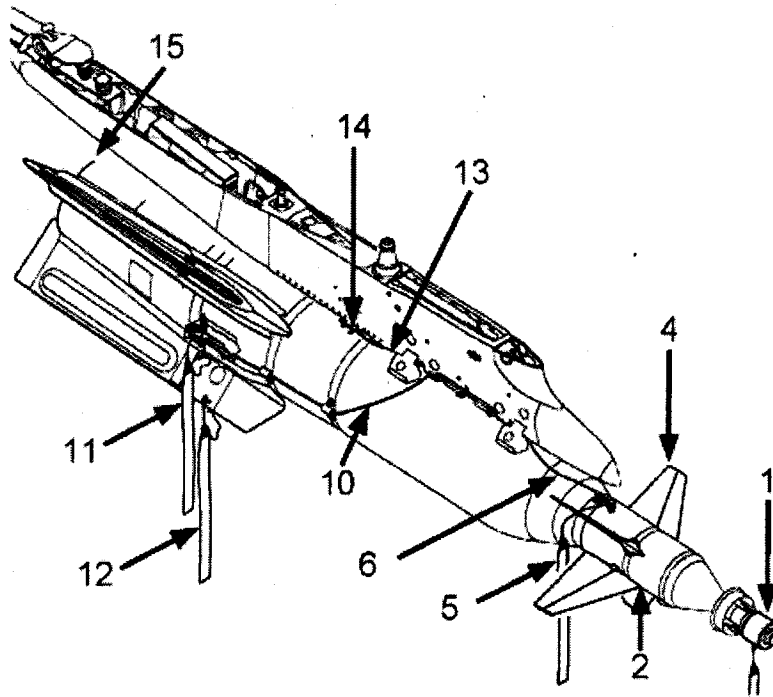
CAUTION
Do not touch seeker optics

- 1. Seeker head:
 - Protective cover Ensure removed
 - Optics window Undamaged
- 2. GPS antennas Undamaged
- 3. [Redacted]
- 4. Canards Secure
- 5. [Redacted]
- 6. Thermal battery safety wire Removed
- 7. Thermal battery lanyard Connected to forward ERU arming device
- 8. 1760 ac interface connector Connected and secure
- 9. Throttle settings As per Table above
- 10. Wing release latch lanyard Connected
- 11. Wing release latch lever safety pin Removed
- 12. Wing fairing assembly safety pin Removed

Combat arm:
13. ERU safety handle UNSAFE

Intentionally Blank

ENHANCED PAVEWAY II AND PAVEWAY II



EPW II /
PW II

External Checks

CAUTION
Do not touch seeker optics

- ① Seeker head:
 - Protective cover Ensure removed
 - Optics window..... Undamaged
- ② PRF code selectors.....Correct laser PRF. *(If PRF appears incorrect, seek engineering assistance)*
- ③ GPS antennas Undamaged
(Not fitted to PWII)
- ④ Canards Secure
- ⑤ Thermal battery safety wire.. Removed
- ⑥ Thermal battery lanyard..... Connected to forward outboard ERU strong point
- ⑦ Cable conduit..... Connected
(Not fitted to PWII)
- ⑧ Throttle settingsAs per Table above

(continued)

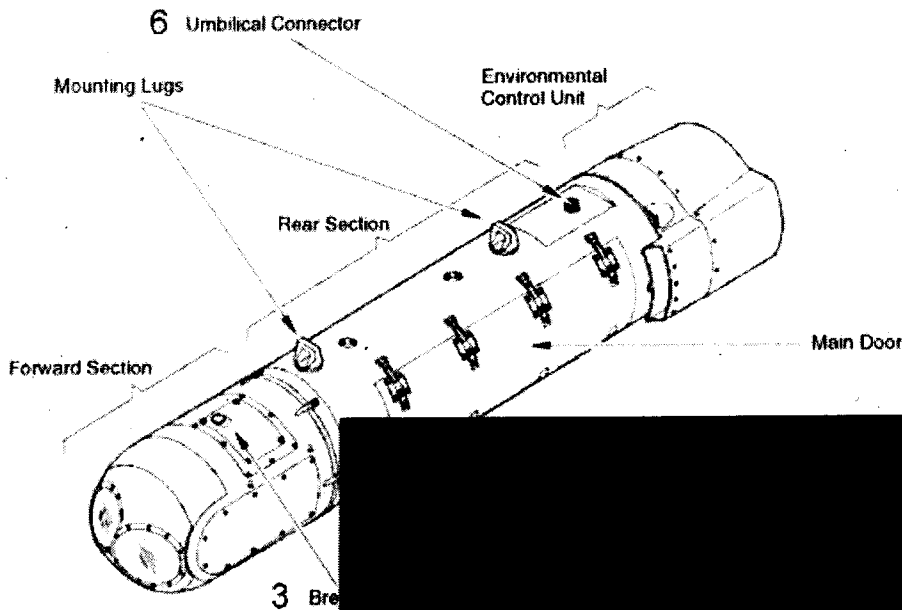
EPW II & PW II External Checks - (continued)

9. Weapon to ac 1760
connector..... Connected & secure
(Not fitted to PWII)
10. Wing release latch
lanyard..... Connected
11. Wing release latch lever
safety pin..... Removed
12. Wing fairing assembly
safety pin..... Removed
13. LEFA..... Connected to aft fuzing
connector [REDACTED]
14. Arming lanyard..... Connected to rear ERU
fuzing unit [REDACTED]
15. Arming vane..... Does not rotate
(2-3mm play acceptable)

Combat arm:

16. ERU safety handle..... UNSAFE

LITENING III LASER DESIGNATION POD



LDP

External Checks

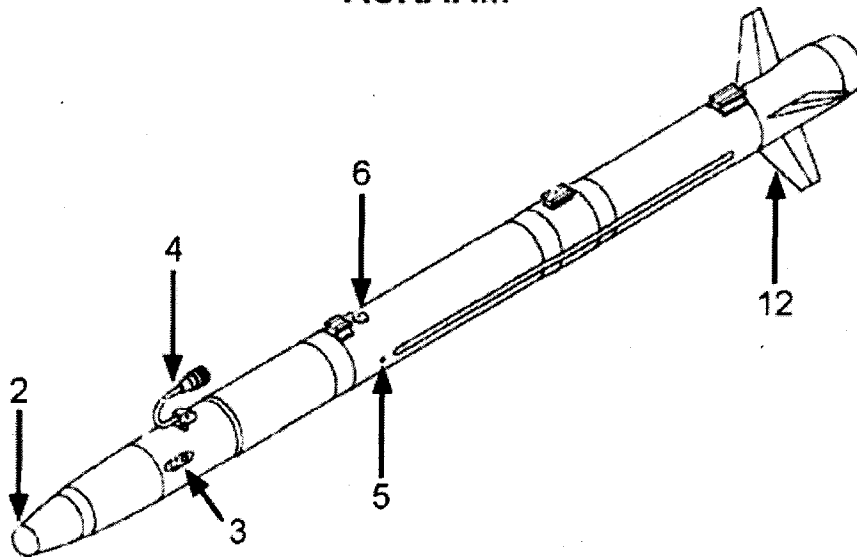
- 1. LDP Secure, clean and undamaged
- 2. LDP head Stowed position
- 3. Breather valve Check in place
- 4. [Redacted]
- 5. All doors Closed and secure
- 6. Umbilical cable Connected to centre fuselage pylon
- 7. Throttle settings As per Table above

Combat arm:

- 8. ERU safety handle UNSAFE

Intentionally Blank

ASRAAM

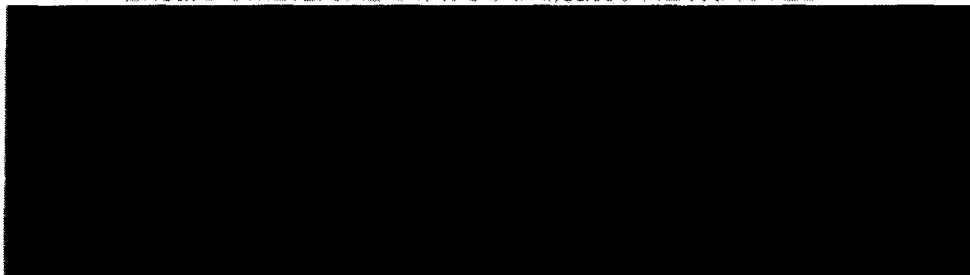


External Checks

- 1. ASRAAM..... Secure, clean, undamaged
- 2. IR dome Remove cover, IR dome undamaged, refit cover
- 3. Proximity fuze Remove cover, windows undamaged, refit cover
- 4. Forward umbilical..... Connected and undamaged
- 5. MSIU window..... Indicates S (safe)
- 6. Digital umbilical connector Engaged in launcher, undamaged (see Note)

Note

- Post-mod 175/176 there is no digital umbilical connector. Ensure UMBILICAL STATUS indicates RETRACTED



ASRAAM

- 7. FWD LATCH STATUS..... LOCKED
- 8. STRIKER STATUS..... ENGAGED
- 9. UMBILICAL STATUS..... ENGAGED (see Note)
- 10. LOAD/UNLOAD - FLIGHT FLIGHT
- 11. Ground Safety Pin Removed
- 12. Fins Remove covers. Ensure undamaged, secure and locked at nominal zero incidence. Refit covers

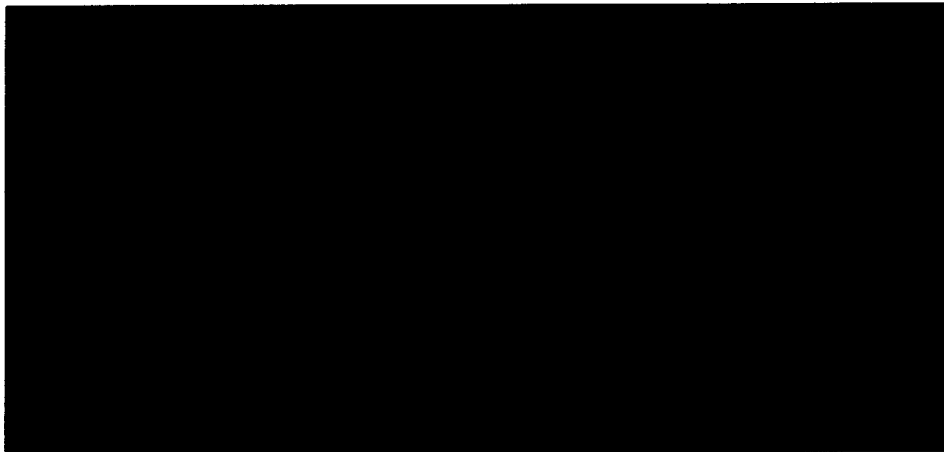
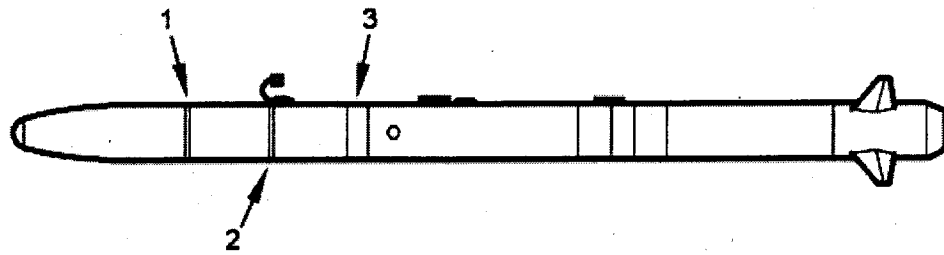
Combat arm:

- 13. Protective covers Remove from IR Dome, proximity fuze and fins (4)

If fitted to MFRL:

- 14. ERU safety handle..... UNSAFE

Identification of Missile Types

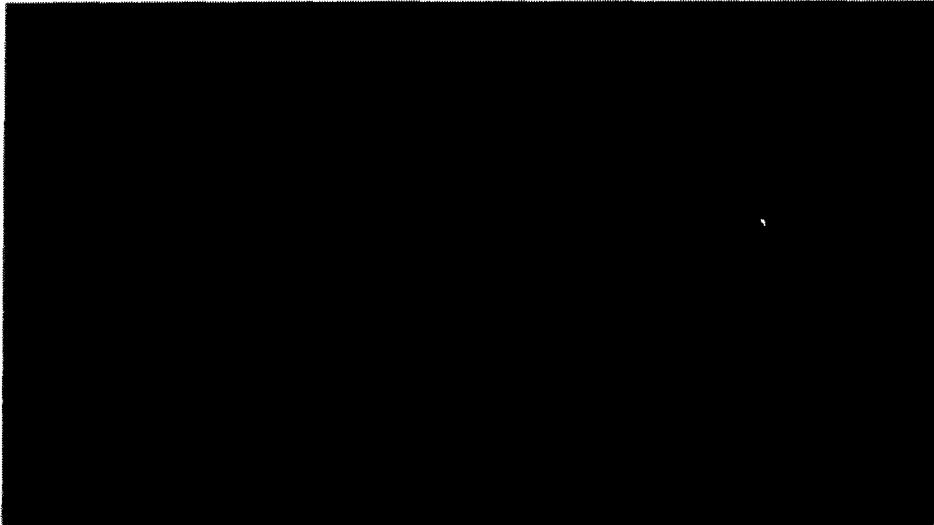


Cockpit Checks

After first engine start and ACS checks complete

- 1. LATE ARM SAFE
- 2. MASS STBY
- 3. SRAAM Select
- 4. Missile uncooled audio tone.. Check
- 5. SRAAM Reject. Cycle through all
SRAAM stations to check
each missile uncooled audio
- 6. SRAAM Reinststate
- 7. SRAAM Deselect

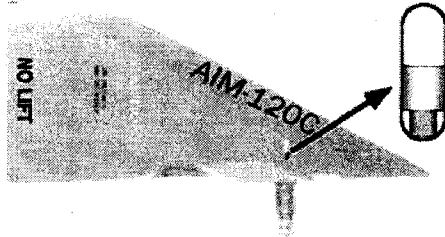
AMRAAM



External Checks

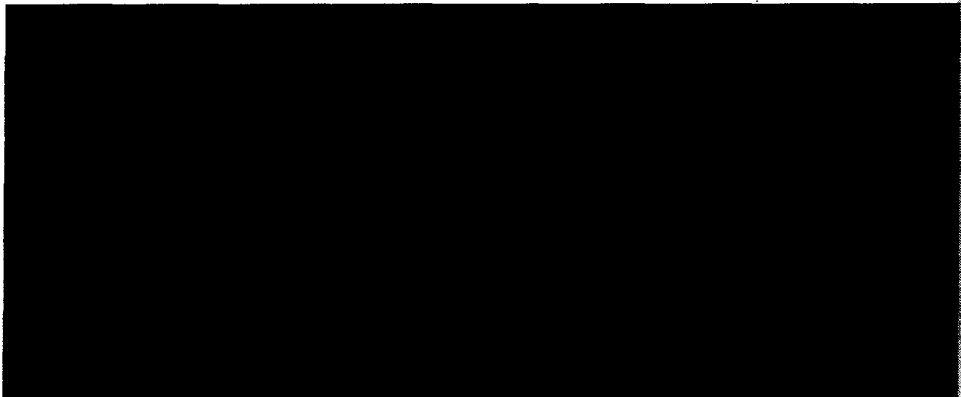


- 1. AMRAAM Secure, clean, undamaged
- 2. Wings Seated tight in wing saddle



Green showing = correct locking indication
 No green = NOGO

- 3. AFD Showing "S" on green background (not applicable for CATM-120)
- 4. Ground lock handle Removed (*MEL only*)



- 5. Umbilical connector Engaged in launcher, undamaged
- 6. Fin locking pins Engaged
- 7. Fin locking levers Locked position

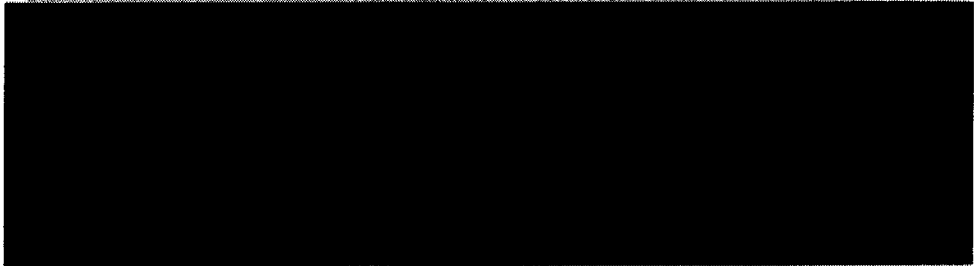
(continued)

AMRAAM

AMRAAM External Checks - continued

Missile(s) on Multifunction Rail Launcher:

8. Throttles settingsAs per Table below:



- 9. FWD LATCH STATUS.....LOCKED
- 10. STRIKER STATUS.....RETRACTED
- 11. UMBILICAL STATUS.....ENGAGED
- 12. LOAD/UNLOAD - FLIGHT...FLIGHT
- 13. Ground Safety PinRemoved

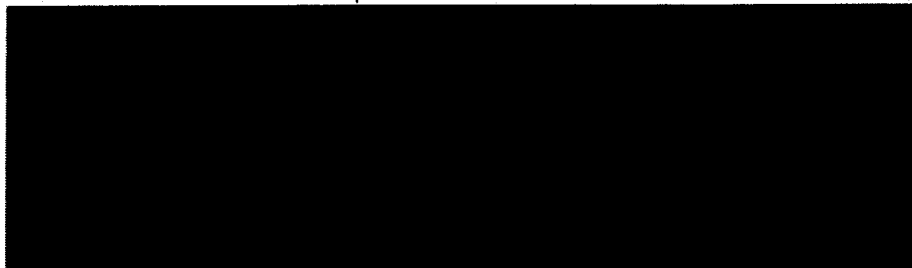
Combat arm (MFRL only):

14. ERU safety handle.....UNSAFE

Cockpit Checks

When MASS is selected to STBY, the configuration checks take place. The AMRAAM BIT is performed at each station.

The results of the AMRAAM BIT are displayed on the STOR format:



The number of AMRAAM available is displayed on the ATCK, HUD, HDHUD, PA, and STOR formats

1. LATE ARM.....SAFE

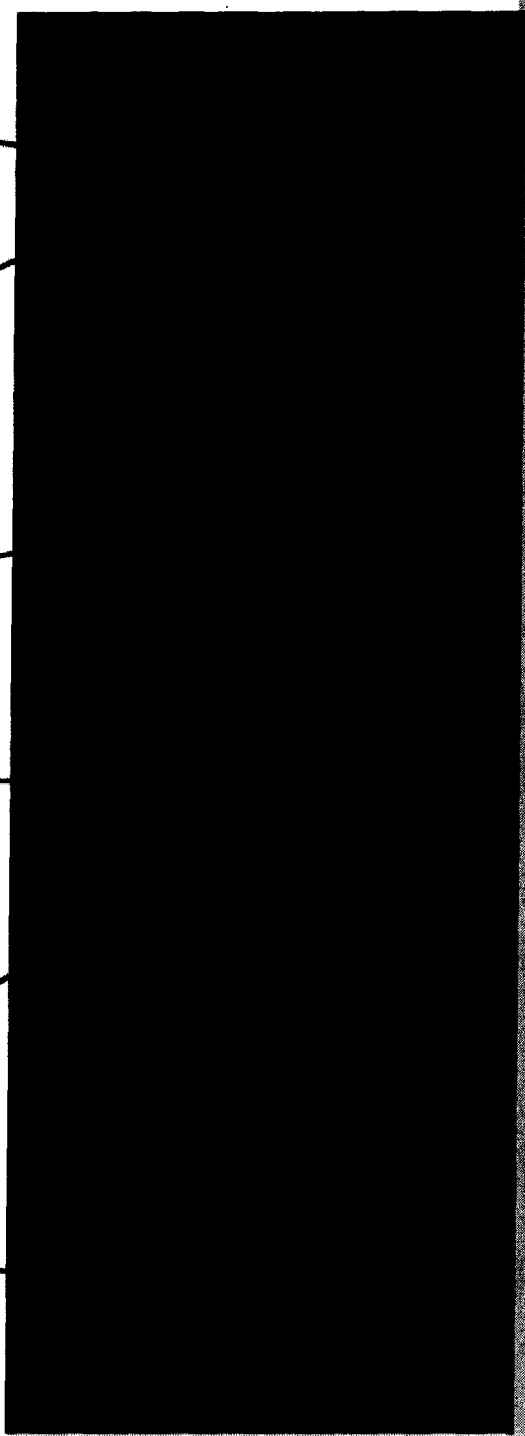
<p>WARNING</p> <p>If a telemetered AMRAAM is carried, inform ground crew before selecting the MASS to STBY.</p>
--

2. MASS.....STBY

3. STOR format.....Check AMRAAM status

MAUSER 27MM GROUND CHECKS

1. Gun locked in Ac
2. Barrel locked
3. Electrical lead connected
4. Load indicator spigot -
protruding if live round in
firing position
5. Correct ammunition loaded
6. LAB to fire



**MAUSER
27MM**

Intentionally Blank

DOMESTIC PLANNING

DOMESTIC
PLANNING

EVASION GRADES

Azimuth Limits: Altitudes above 250ft MSD

<i>Serial</i>	<i>Maximum Evasion</i>	<i>Day/ Night</i>	<i>ECM</i>

Azimuth Limits: OLF Training

<i>Serial</i>	<i>Maximum Evasion</i>	<i>Day/ Night</i>	<i>ECM</i>

(continued)

Evasion Grades - *continued*

Elevation Limits: All Altitudes

<i>Serial</i>	<i>Max Altitude Change</i>	<i>Max Rate of Change</i>	<i>Day/ Night</i>	<i>ECM</i>
[REDACTED]				

Speed Limits: All Altitudes

<i>Serial</i>	<i>Max Speed Change</i>	<i>Day/ Night</i>	<i>ECM</i>
[REDACTED]			

Note

[REDACTED]

RULES OF COMBAT (IAW ATIs)**Weather:**

[REDACTED]

Minimum Height:

[REDACTED]

Minimum Separation:

[REDACTED]

RT:

[REDACTED]

'Terminate':

[REDACTED]

'Knock it off':

Loss of SA. If anyone (inc gnd controller) feels unsafe situation developing. Aircraft emergency

Collision Avoidance:

The responsibility of all. Head to head - clear to the right unless you would cross flight paths. 'Knock it off' if situational awareness lost

ACLs: 2-3 ac: One ACL
> 3 ac: One ACL per section
> 8 ac: Include one 8+ ACL

DACT: CR/LCR crews only.

BALLISTIC: ALSR

FIGHTING EDGE TRAINING RULES

COMMAND & CONTROL

Radar surveillance if possible

WEATHER



COMMS

Separate freq authorized if:

- Controllers to have simultaneous monitor and broadcast on each working freq and face-to-face or dedicated comms link between controllers
- If above requirements not met, engagements must be conducted on single freq

Aircrew must verify 2 way comms prior to engagement

Radio failure – Rock wings and clear out of engagement

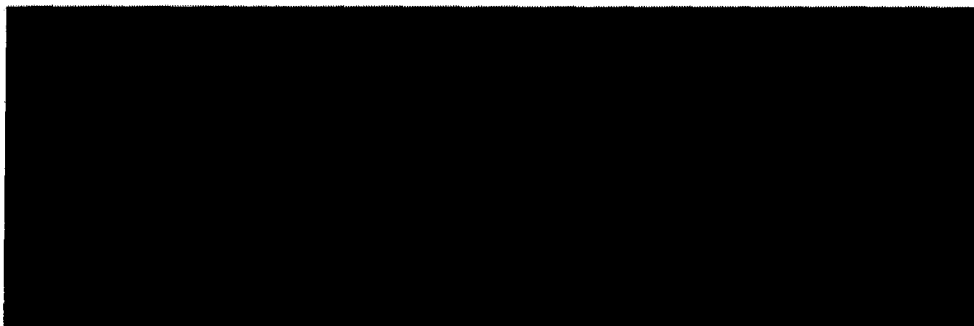
MIN ALTS



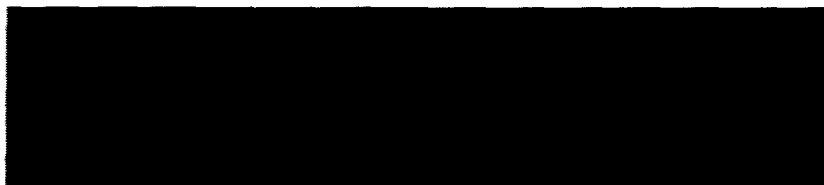
SEPARATION



DO NOT TRANSIT ALT BLOCKS UNLESS:



BLIND / NOJOY



(continued)

Fighting Edge Training Rules - *continued*

MIN RANGE 1000FT

COLLISION AVOIDANCE

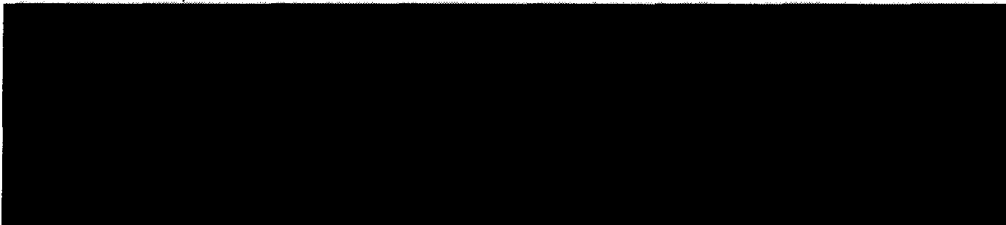
The responsibility of all.

- Head to head – clear to the right unless you would cross flight paths. 'Knock it off' if situational awareness lost
- Nose high goes high (energy and alt permitting)

CESSATION OF SIMULATED WPNS EMPLOYMENT



TERMINATE



KNOCK IT OFF FLIGHT SAFETY HAZARD

LIMITED MANOEUVRING

At low altitude, once engagement has begun, the maximum grade permitted is limited manoeuvring

LOW ALT Defined as below 5000ft

BEGINNING OF ENGAGEMENT

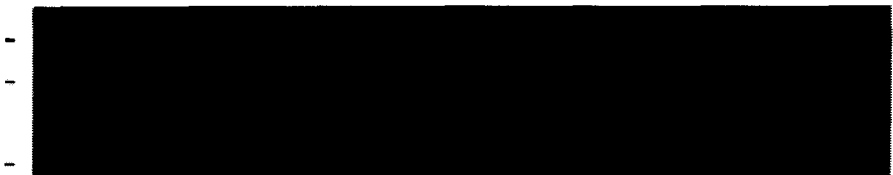
Defined as when both opposing ac begin visual manoeuvres to achieve or prevent a weapons firing position

Based on alt of lowest participant in the engagement

MIN ALTS:



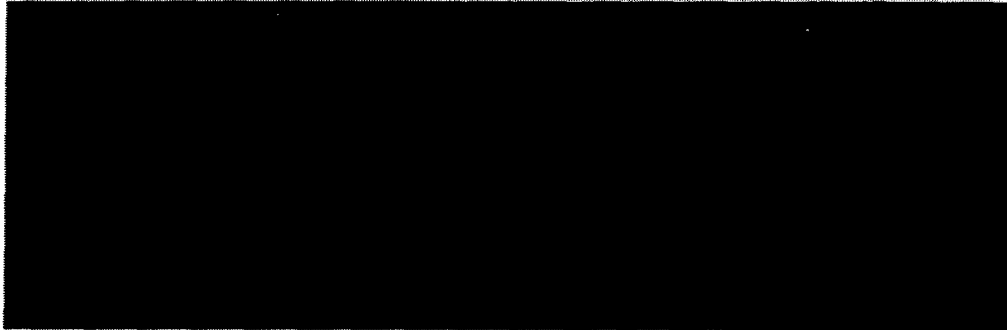
MAXIMUM OF LIMITED MANOEUVRING IF:



(continued)

Fighting Edge Training Rules - *continued*

LIMITS OF MANOEUVRING



NO MANOEUVRING RESTRICTIONS WHEN FORWARD OF THE 3/9 LINE



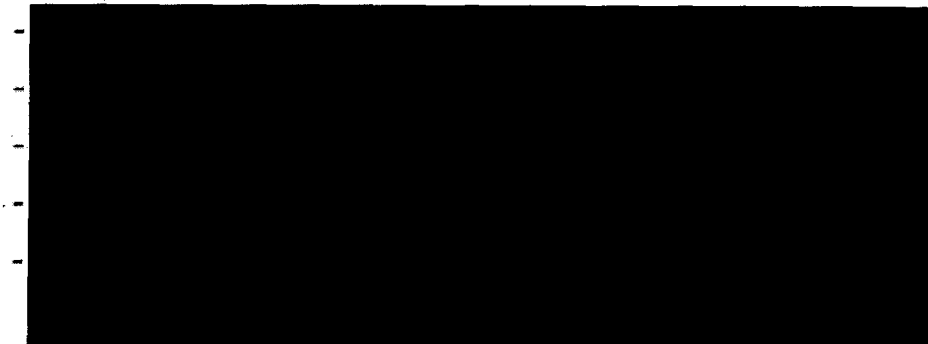
COMMS JAMMING

Brief the following:



ELECTRONIC WARFARE

Brief the following:



Intentionally Blank

LDP AND PW COORDINATION PROFORMA

PLAYERS: Mission Leader Callsign and ac type
Spiker callsign and ac type
Bomber callsign and ac type

COMMS: Primary / Secondary / A/A Tac / MIDS

TIMELINE: Push / RV / TOT Bracket

TARGET: DMPI
Codewords
Priorities

ATTACK: LOA
Wind
Obstructions
Collateral

ROE: Requirements

WEAPON: Type
Laser Code
Mode
TOF
Laser on time

PROFILE: Formation
Height
Speed
Laser Acquisition Range
Planned Release Range (FE / NE)
Release Angle

DECONFLICTION: Datum Heights
Collision Avoidance Responsibility

Aircraft Type Consideration
Re-attack
Poor Wx
Threat Reactions
Loser Plan
Emergencies NORDO / Divs / Dissimilar Formation
Debrief Time

Intentionally Blank

TYPHOON FORCE AUTHORISATION CODES

Air-to-Air Refuelling iaw ATP 56(B)/Convex TUG
Close Air Support
EW Training
Formation (Insert C/S). Close and Tactical as briefed
GH/IF incl Aeros NB 5000ft AGL/AMSL (PDs to be specified)
OCU Syllabus Sortie (Insert Sortie Code)
IRT iaw GASOs and MRP RA2000 (2120)
Affiliation Trg iaw GASOs, ATIs and if applicable Fighting Edge (Insert Type, No, Callsign and Evasion Grades)
Low Flying (Insert LFA(s) / Country if not UK; Insert MSD if not 250ft)
Attack profiles: <ol style="list-style-type: none"> 1. LDD 2. Dry 3. Strafe 4. Heavy Weapon Inert 5. Heavy Weapon Live
NVG Flying (MSD to be inserted if below SALT)
TOO iaw ATIs (A3 E1 S1)
Practice Intercepts (Insert Min Ht/MSD and EV Grades)
QRA (Operational)
Range (Insert Name) iaw ACAWEWROs
STANEVAL check ride
Trial (Insert Name), iaw Sortie Profile Sheet
UPs NB 5000ft AGL/AMSL (Insert Min Ht/MSD if Different)
VIDs (Insert Phase/s)
Live Weapons (Insert Number and Type of Wpn/s and Release Profile/s)
Passenger Sortie
Flypast (Insert Location, Event and Min Ht/MSD)
Display Flying (Insert Location and Min Ht/MSD)
Maintenance and Partial Test Flight iaw 1G2220 and Typhoon FTS

Codes are HQ 1Gp controlled

Intentionally Blank

TELEPHONE BRIEFING PROFORMA FOR AFFILIATION

TRAINING BETWEEN _____ SQN AND _____ SQN

1. Date of exercise:
2. Aims of sortie and objectives:
3. Time of sorties/confirmation of ETA:*
4. Location of exercise:
5. Ac participating
 - a. _____ Sqn _____ Aircraft _____ Callsign*
 - b. _____ Sqn _____ Aircraft _____ Callsign*
6. Overall combat leader's name:
7. Own mission leader's name:
8. Control authority:*
9. Request TADS:*
10. Loss of RT procedures:
11. IFF squawks:
12. Minimum altitude/height separation:*
13. Minimum flight conditions/weather in exercise area:*
14. Maximum evasion grades:
15. Minimum speeds:
 - a. _____ Sqn _____ kt
 - b. _____ Sqn _____ kt
16. Minimum separation ranges:
17. RV procedures:
18. Block heights requested
 - a. _____ Sqn _____ ft to _____ ft*
 - b. _____ Sqn _____ ft to _____ ft*
19. Set up procedures:
20. Weapon simulation:
 - a. _____ Sqn _____
 - b. _____ Sqn _____
21. ECM to be used:
 - a. _____ Sqn _____
 - b. _____ Sqn _____
22. Emergency procs:
 - a. _____ Sqn _____
 - b. _____ Sqn _____
23. Cessation of engagement criteria:
24. General tactics:
 - a. _____ Sqn _____
 - b. _____ Sqn _____
25. Fuel considerations:
26. Recovery procedures:
27. Limitation to both types or aircraft:
 - a. _____ Sqn _____
 - b. _____ Sqn _____
28. Times of final coordination brief:

Signed
 NAME (Mission Leader)
 RANK

* Details are to be recorded and kept for 6 months
 See ATI Briefing Proforma

AIR COMBAT BRIEF

Mission: Objectives / scenario / altex / msn cdr

Area: Boundaries / alt block / min ht / waypoints

Slot/TOT:

GCI: Agency / callsign / RT (primary, secondary, TADs) / squawks

Opposition: Unit / callsign / type / no

Set ups:	C/S.....	C/S.....
Start point		
Flt Level / blocks		
Control Authority		
Type of control		
Weapons (no, type)		
Chaff / flares		
Parameters		
Kill criteria		
Kill removal		
Re-entry		
Shot passing		
Restrictions		
G		
Radar		
Weapons		
Speed		

Contingencies: No GCI / single freq / single radio / no radio / bad wx / loser

Tactics: Considerations / wx (sun, cloud, contrails) / GCI
Threat (nos, performance, radar, weapons)
Own (nos, fit)

Game plan: Offensive / defensive

EW: Chaff, flares

Disengagements:

Rules of combat:

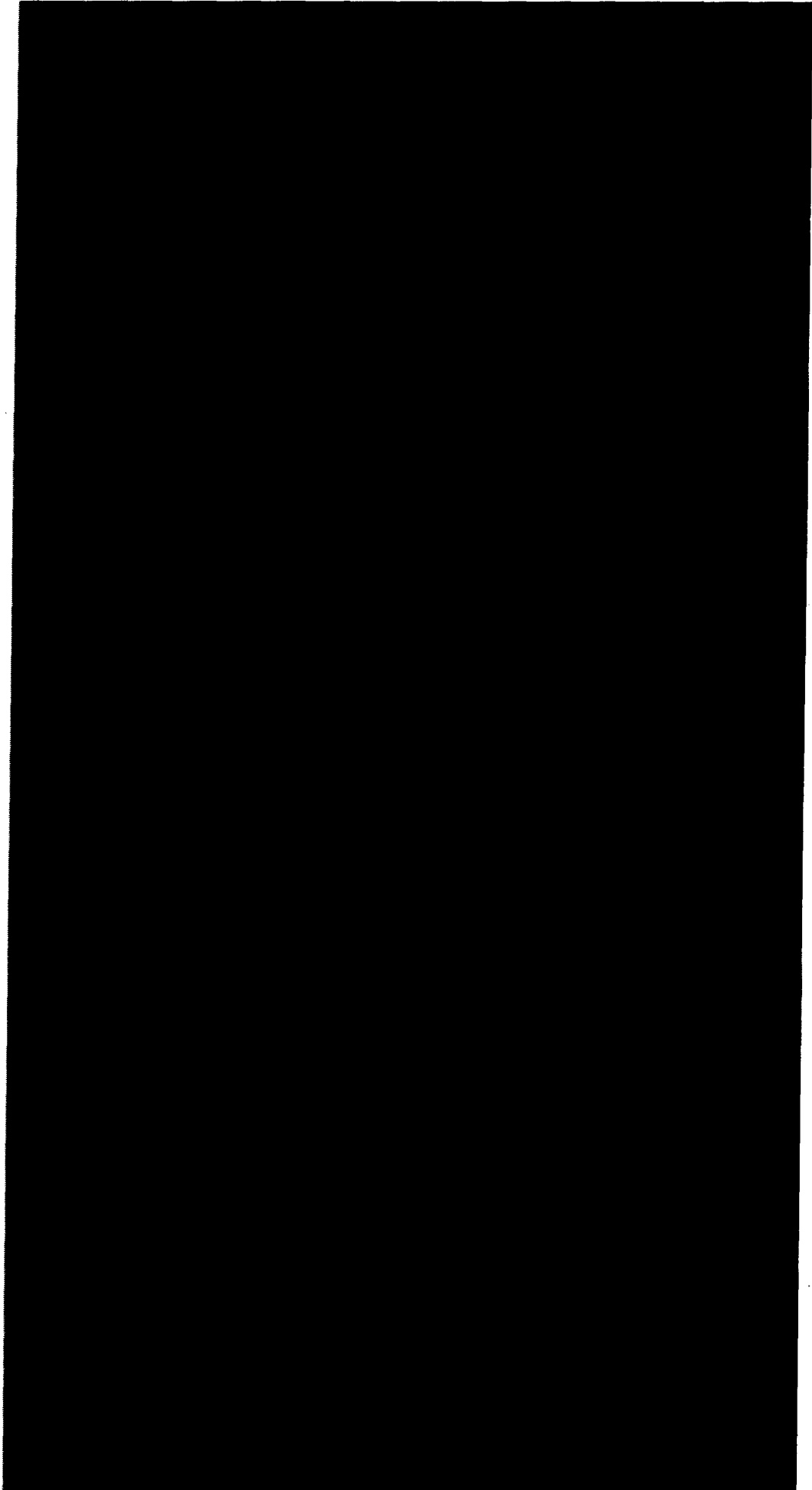
Emergencies:

Ac limits:

Debrief:

Questions:

TELEPHONE NUMBERS



ASACS/AWACS SORTIE BRIEFING FORM

CLASSIFICATION (WHEN COMPLETE): _____

BE MINDFUL OF THE CLASSIFICATION (E.G. RANGES) AND THE MEDIUM BY WHICH THEY ARE COMMUNICATED

FORMATION LEADS ARE TO ATTACH ANY MISSION MATERIAL THAT AMPLIFIES THE INFORMATION ON THIS FORM

ASACS/AWACS SORTIE BRIEFING FORM									
	Callsign	T/O	Vul	Area	Ht Block	POC Name	POC Tel No		
Blue:									
Red:									
Aim:									
Msn Objectives	1.				GC/AWACS Objectives:	1.			
	2.					2.			
	3.					3.			
Task:	Scenario								
	Cdr Intent					Risk Level			
ID CRITERIA / ROE:	LOF				Desig ac/PDSS				
	POO				Permitted ac				
	PEI						C/S		
	Proc ID						No & Type		
	Guilt By Association						Threat		
	HI/HA						Ord A-A		
							Ord A-G		
							Bullseye		
	HDA Holder						P/S TAD/Freq		
TEA Holder						Aux TAD/Freq			
Other:						HQ TOD			
Target:	C/S	DPI	Location	Pri	Wpn	TOT	HQ Set / Net		
							Mode 1		
							Mode 2		
							Mode 3		
							Mode 4		
Threat:	A-A	Pri	Type	Missile	Threat range		L16 STNs/Net		
							Start Points		
							Kill Criteria		
							Kill Removal		
							Kill Passing		
	S-A	Pri	Type	Location	Trespass rng		Regen Crit		
							Reloads		
							Sancs		
							Floor		
							MDA Booking		

CLASSIFICATION (WHEN COMPLETE): _____

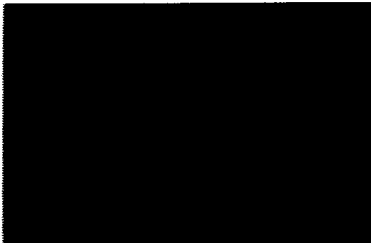
Intentionally Blank

TYPHOON FORCE OUTBRIEF

C/S: _____ OUTBRIEF TIME: _____ Z

OPS

- Callsign / Mission Number / (4) = Total name)
- NOTAMs / CANPs / PINS / MIDS AVOIDS / EMCON
- Royal Flights
- ROF/Departure Details (4) = hard copy of D)
- Wx update (OAT °C) (<5°C = Check Vis / ≤0°C = AMC)
- Airfield / ATC update / BINGO Times
- Diversion(s): Wx / Details / FOG / Green/White rated? (4) = Total wind limit)
- Correct Runway Speeds / NBE/MBE for Configuration?
- Streaming Chute? Tell Eng



Pilot	Ac	PSC SRP	HEA CCM	HAS/ SLOT	Config	Radio Fit	STN	Lims/Anomalies /Fly Regs
					●			
					●			
					●			
					●			

FALLOUT

- Spare / Loser / PDS Plan
- Delay (Auth coord?)
- Deputy lead

CURRENCY

- Current to fly?
- In the Green?

• (4) = Total number of aircraft

• (4) = Total number of aircraft

• (4) = Total number of aircraft

• (4) = Total number of aircraft

• (4) = Total number of aircraft

AIRSPACE UPDATE

- Area - Limits?
- Lateral / Vertical limits
- Timings / Deconfliction

A-A

- MSD + Rules briefed
- ACLs
- Affil Prof / CARG Card
- Affil launch cue?
- TOO?

LOW LEVEL

- Bkg No / Times / SALT
- Maps / Freqs (LL#13)
- Late warnings
 - FOA Update?
- BAMGIS
- CADS Cx?
- W Scot LL Freq

A-S / CAS

- C/S / FREQS
- Profiles
- MRH / FRmin
- TOT / Tgt spacing / Deconfliction
- SCLs - FUZING
- AUTHENT
- SANCs

AAR

- TL, C/S, TAC
- Bracket & Give
- Fuel Plan
- Div Wx near to TL
- RTS Limits briefed?

PAX FLYING

- Auth - Limits?
- Proforma complete

continued

Typhoon Force Outbrief - continued**LANDAWAY**

- Dip Clr / PPR No
- Landaway Prep Chit
- T/R Cert
- Passport / Orders
- Imprest / Letter of Auth
- Fuel Carnet
- Runway speeds for RTB

NIGHT FLYING

- Current - flown previous 14 days
(10 for OCU students)
- Torches

FORMATION

- Avoidance / Loss of Visual
- Join Procedures

NVGs

- Hoffman focused?
- Emergencies briefed?

OPS/EXERCISE

- FP WORDS
- Airfield Damage / Taxi Pattern
- ACO Routing - TL/BDZ
- GO/NOGO

SELF

- F189 / Dog Tags
- Weapon & Ammo

INT UPDATE

- SERE
- Word / Letter / Number
- Colour / Duress
- RAMROD / SARNEG

Q3 Handover?

**PDS / RMM / VVR / RAIDS /
Noddy Guide signed for?**

NEW DOCS FOR Ac**FORCE PIF / HOT POOP****AUTH SHEETS**

- Profile codes
- Signatures
- 41 = SFD code
- 41 = SWF code

CORRECTLY DRESSED?

- SAR Update
 - AEA v Temp
 - SAR Assets v Airspace
- Check for loose articles
 - Ice Guard
 - ASP NBC cover
 - Kneeboard

CREW DUTY / FATIGUED?**HARD LAND TIME**

- Hotpit / Turn / CC

SIGN OUT ESS

TYPHOON FORCE INBRIEF

Prior to Inbrief, pilots are to complete the following:

- ESS
- Auth sheets (match ESS?)
- PSD
- TACTS / Stats sheet / STARS
- ROF- MDA / LFA Times / Record of route

OPS / EXERCISE

MISREP Completed?

RETURN

DOCS Signed in / destroyed if SECRET?

DESTROY CSAR Info - IF NO FURTHER TASKING!

AC SERVICEABILITY

Ac	'S/US	Pilot Accept	Anomalies	Radar	MIDS	DASS

- Stream chute?

INBRIEF

DOMS

- Met report
- Deviate/Infringe?
- Work up/DCO Board

SRFs

- Course Progress sheet
- Unaccomplished tasks
- (29 = Student clearances)

MISC

- Flight Safety Issues? If ASIMS / Human Factors Report reqd, Auth to tell engineers. Seek Fit Cdr guidance
- Civilian PD - Complete F6840 and hand to FOA
- Any ac docs used?
- Lessons identified; Lessons ref ASACS / ATC / AAR
- () - CA / RFI / Lessons identified

EQUIP

- Classified Materials (PDS incl PINS check - RMM - VVR - RAIDS - Noddy Guide - LUC) Signed in?
- PDS download required
- Check for Loose Articles - Ice guard / ASP NBC cover / Kneeboard / HEA Pins
- Night Sortie - Torches returned
- Landaway - Fuel Carnet

NEXT EVENT / MESSAGES

4-SHIP DOMESTICS

4-SHIP DOMESTICS														
CALLSIGN		STN	DIV	NO	MI	AM	SPCH	CAP	FOG					
NO	AC	PILOT		NO	MI	AM	SPCH	CAP	FOG					
LOSER														
DEP														
PWR	T	RT	V _{LOS}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}	V _{WIND}
GC	STED	STR	CARR	EW	TIME	FRONT	BACK							
T	OXIM													
A	PRI													
D	SEC													
S	TER													
M	A													
A	N													
AIRSPACE	TIME	HEIGHT	LOCK	TIME	BULLSEYE									
AAR	SALSIGN	TL	TIME	WAVE	GIVE	IP								

4-SHIP TACTICAL DOMESTICS

RED BOXED CELLS SECRET WHEN COMPLETE - SHRED AFTER USE										
4-SHIP TACTICAL DOMESTICS										
CALLSIGN			DIV					FOG		
NO	AC	PILOT	STN	M3	M1	A/A	SRCH	CAP	BLOCK	SANC
	TIME	FRONT	BACK							
ROLL										
VUL										
TOT										
CODEWORD			MEANING				MISC			
C/S	NO	TYPE	WPN	TN	M1	CAP	FREQ	SANC	M3	
JKR	FUEL	WPNS	ACTION			TAKE IF SHUFFLE				
J1						TAD	STUD	C'MRK		
J2							21			
J3							22			
BGO							23			
RED BOXED CELLS SECRET WHEN COMPLETE - SHRED AFTER USE										

Intentionally Blank

TYPHOON SOP BRIEFING GUIDE

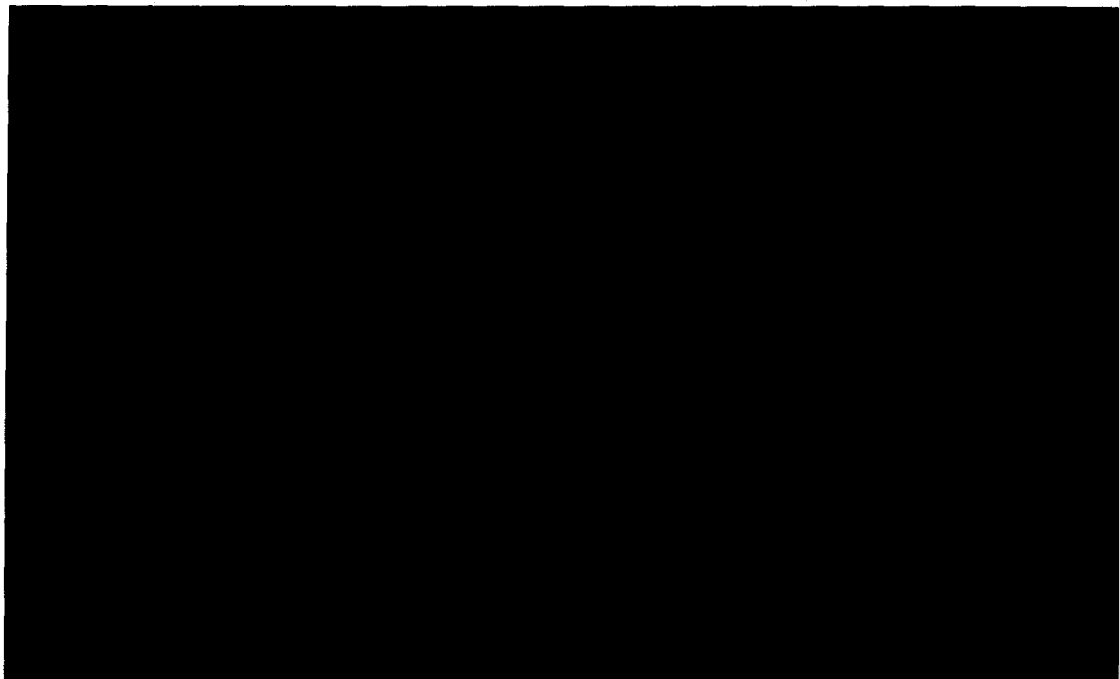
C/S	MISSION PRODUCTS
HACK (Brief End:)	PDS LUC Coord Maps
AIM	[REDACTED]
OBJECTIVES	COMM PLAN/FLOW
1. 2. 3.	Check in C/S / agency Freqs Limfacs Secure / Anti-Jam / Authentication / Chattermark
Wx NOTAMs PINs Royal Flts MIDS avoids	GND OPS
TASK	Gnd Wpn System Cx MIDS / Radar / DASS / IFF int / xpdr / LDP Cx-in Taxy Flow / slot time Arming Delayed Wg Man
Scenario Cdr's Intent Risk Level	DEPARTURE
ROE:	Line-up T/O Type BDZ Status [REDACTED]
A/A A/S [REDACTED]	Route
AIR THREAT	WPN SYS CX
Type Loadout INT / Doctrine Indications Counters DASS	When / how g-warm
	AAR
SURFACE THREAT	IMC / Night Join Bingo (+ Probe Out) Emergencies Fallout
GOB DASS / IR Type & Location WEZ Indications Counters DASS	AREA
TARGET	Booking Times Bullseye Marshal / CAP Border / FLOT / FEBA / FSCL Avoids (MIDS) SALT Route Wx - trop / trails
Description Location TOT	FENCE IN / OUT
TACTICS OVERVIEW	When / how GO / NO GO criteria
	RECOVERY
	MISREP Type/Formation BDCs BDZ status [REDACTED]
	De-arming

(continued)

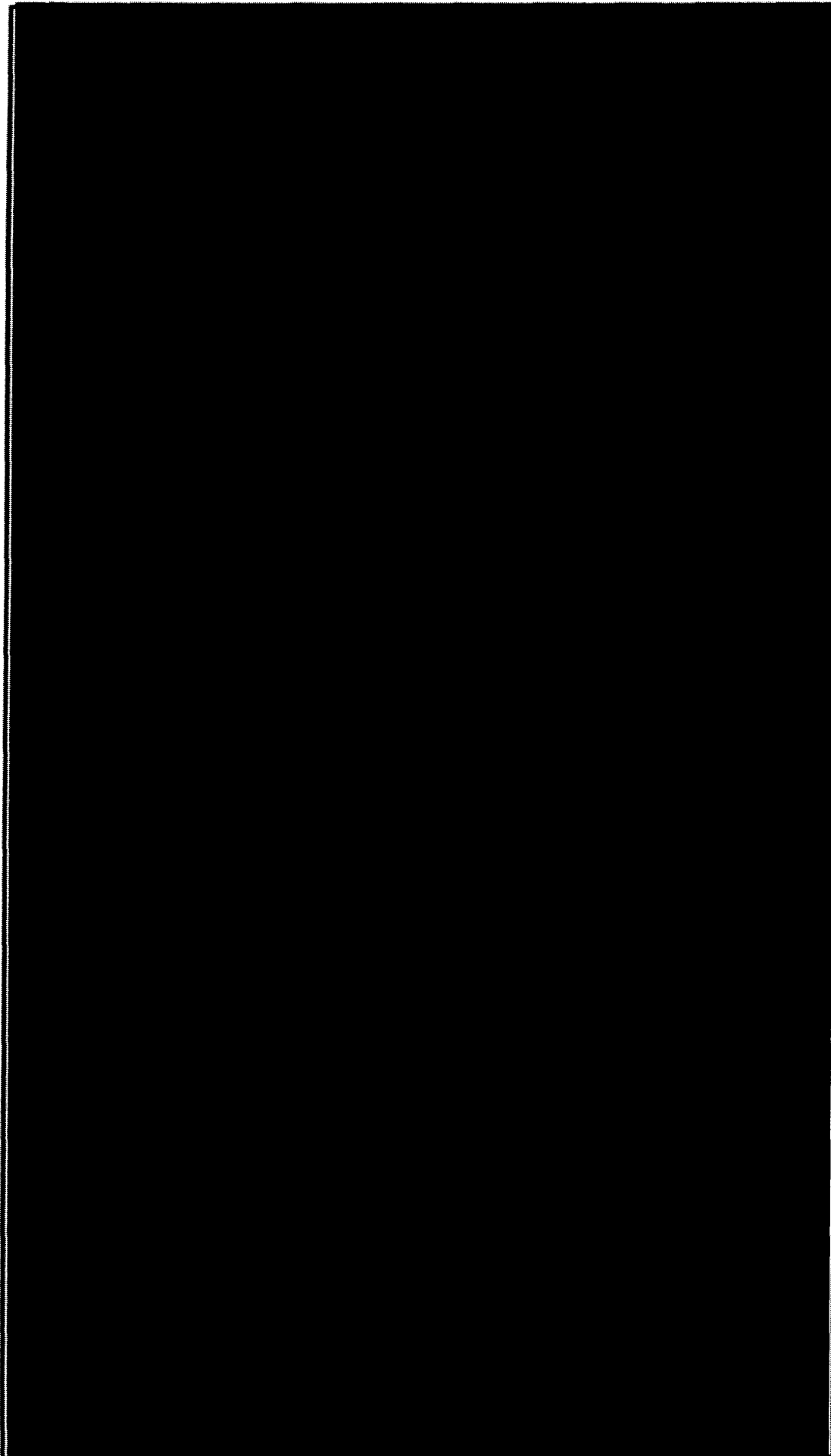
Typhoon SOP Briefing Guide - *continued*

SPINS

	C/S		
	NO & TYPE		
	FREQS		
	AA-TAC		
	IFF		
	ID / ROE		
	ORD - A/S		
	ORD - A/A		
	KILL CRITERIA		
	KILL PASSING		
	KILL REMOVAL		
	REGEN		
	RELOAD		
	VUL		
	SANCS		
	FLOOR		

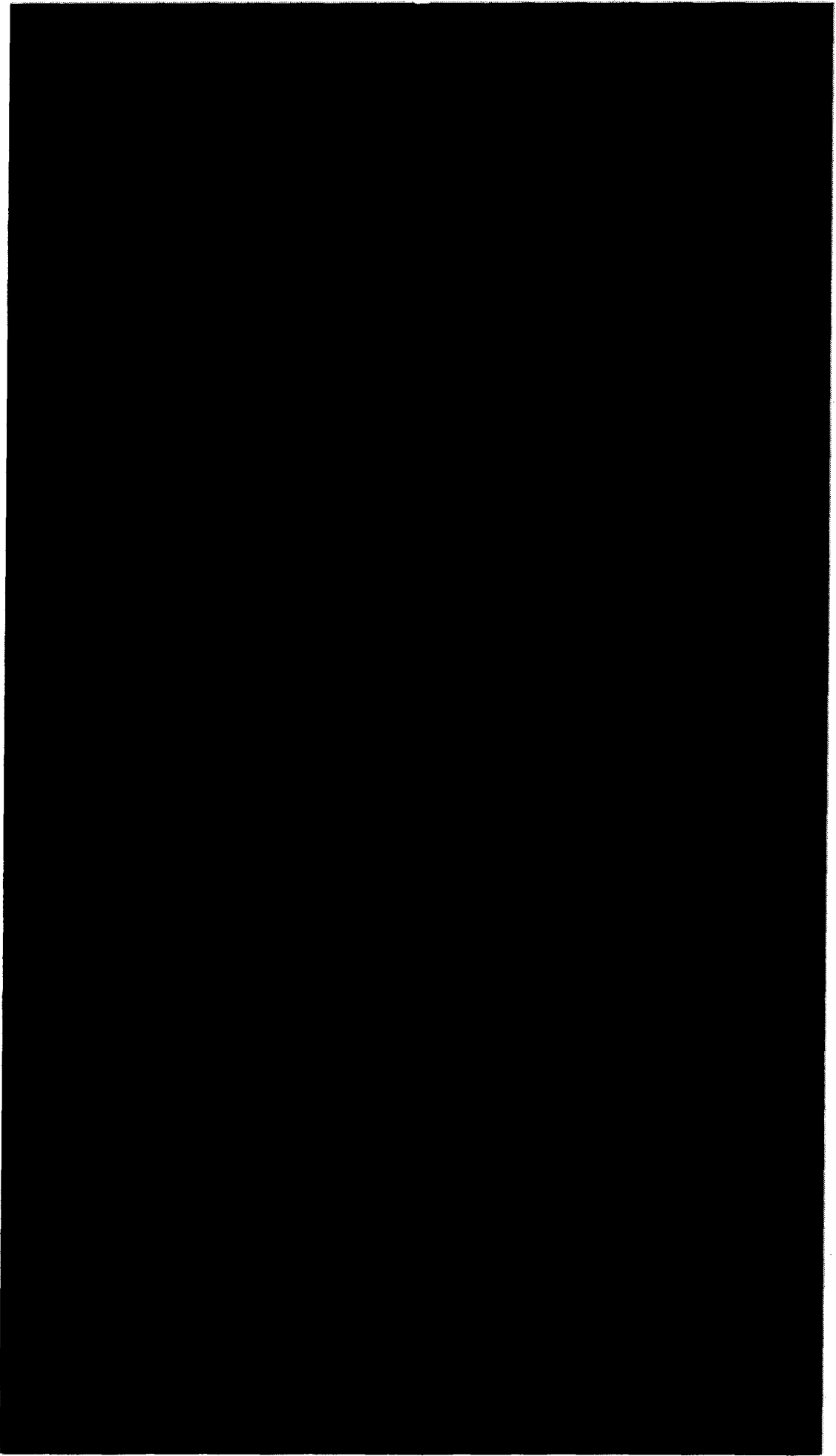


Typhoon SOP Briefing Guide - *continued*



(continued)

Typhoon SOP Briefing Guide - *continued*



(continued)

Typhoon SOP Briefing Guide - continued

AIR INTERDICTION

LOADOUT

Ac	Wpn Type/No	LDP	Fuze	PRF
1				
2				
3				
4				

LIMITS

Carriage
Release
Jettison

JETTISON CRITERIA

Merge
SAM reaction
Chasedown

A-S TRANSITION

Split
SDL
Factor Groups

REJOIN

Point
Egress disposition

DPI	N/S	E/W	Elev	Wpt	Ac	PRF	TOT

TARGET

Wind / Sort

HAZARDS

Threat reaction

Re-attack

DPI description: Pod
Visual

KFF

Profile

Spacing

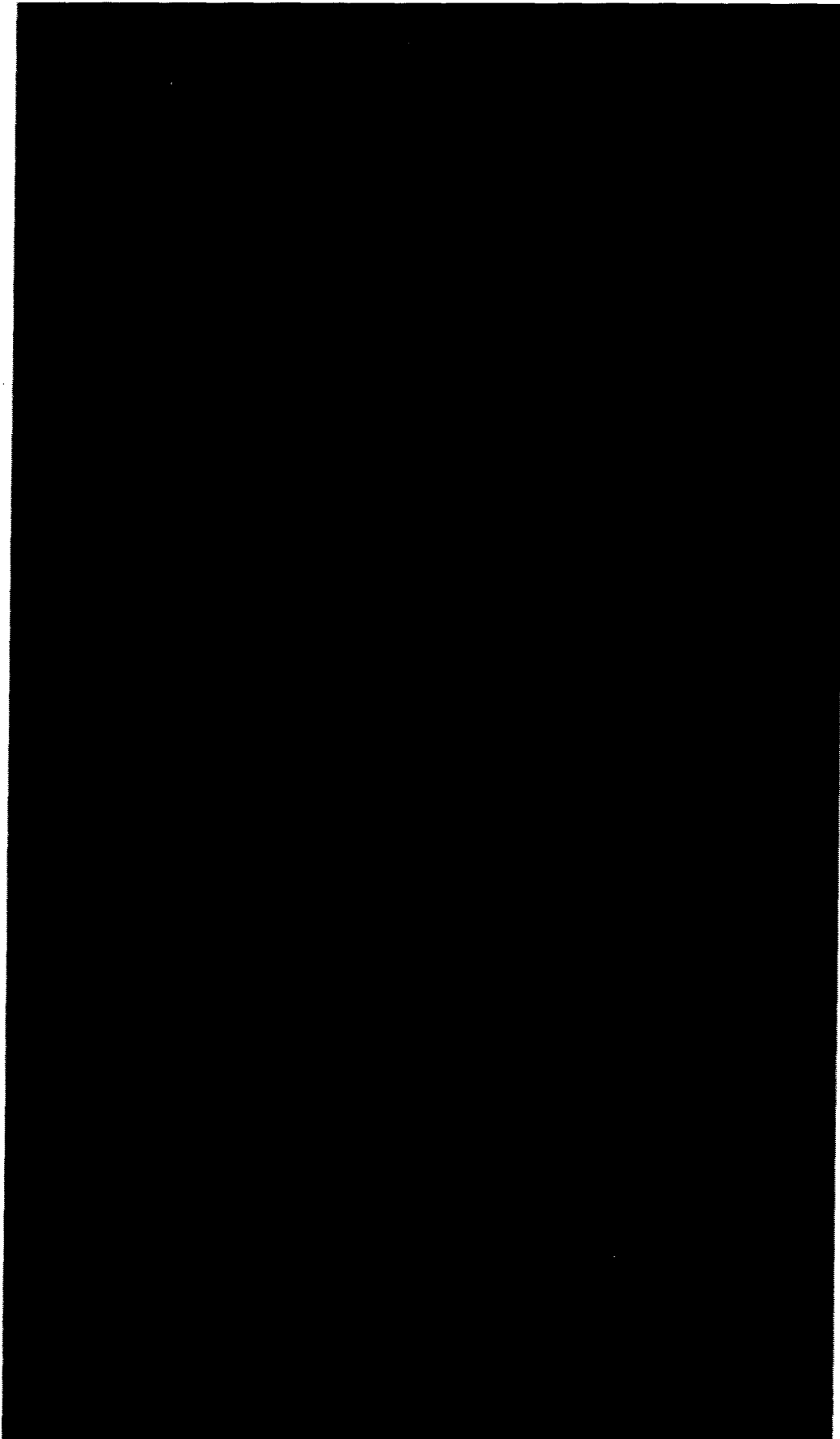
Ranging

MRH / frag

(continued)

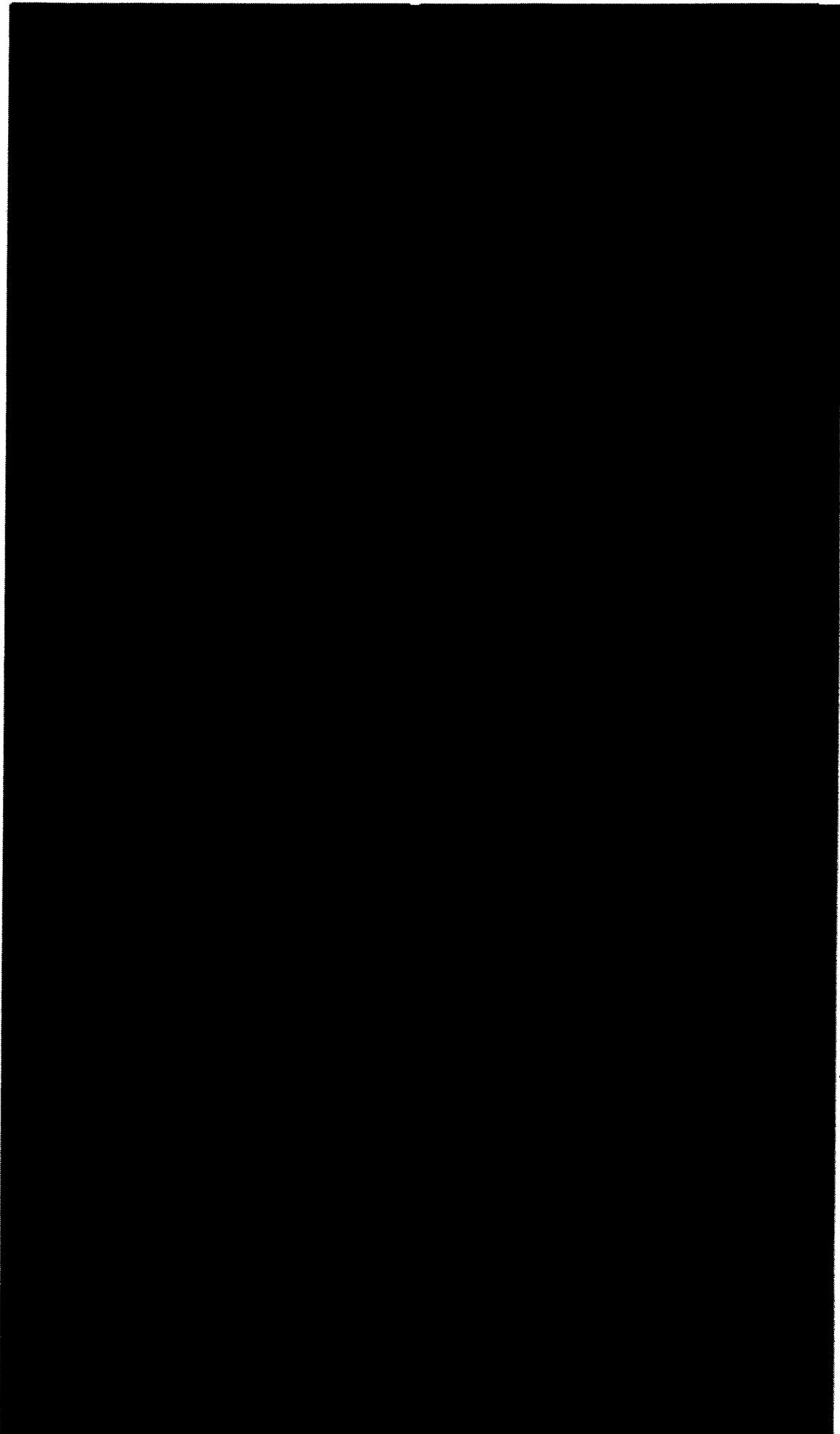
Typhoon SOP Briefing Guide - *continued*

ATTACK



(continued)

Typhoon SOP Briefing Guide - *continued*



(continued)

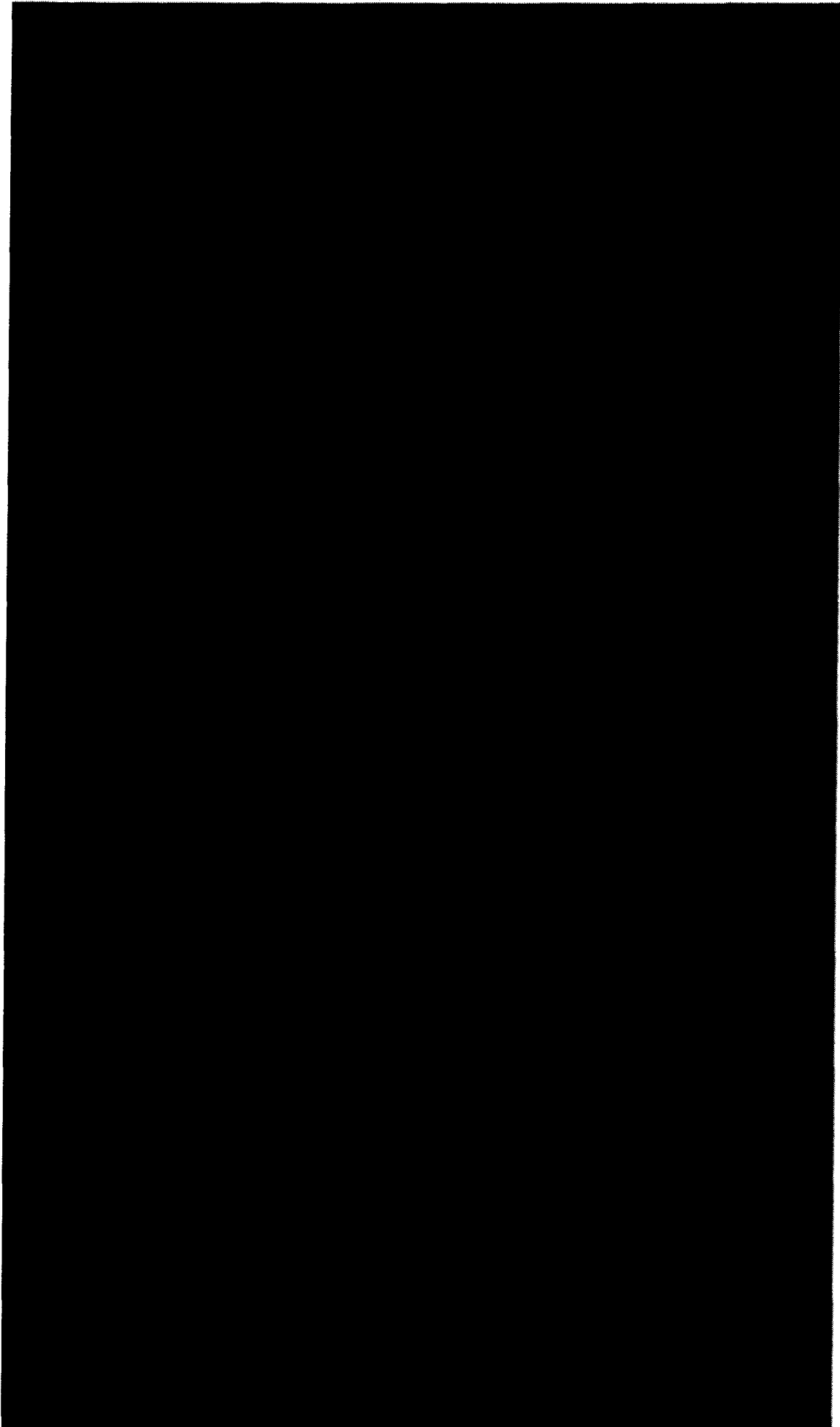
Typhoon SOP Briefing Guide - *continued*CAS - (*continued*)

Ac	Weapon Type / No	LDP	Arm	Fuze	PRF
1					
2					
3					
4					

KEYS TO SUCCESS

1. Build relationship with JTAC
2. Position aircraft to provide timely response
3. Do not rush attack/follow procedures

Typhoon SOP Briefing Guide - *continued*



Typhoon SOP Briefing Guide - continued

RANGE - (continued)

A/S PACKAGES				
ATK / FFG	QTY	S/P/R	RANGING	PROFILE

RANGE CARDS

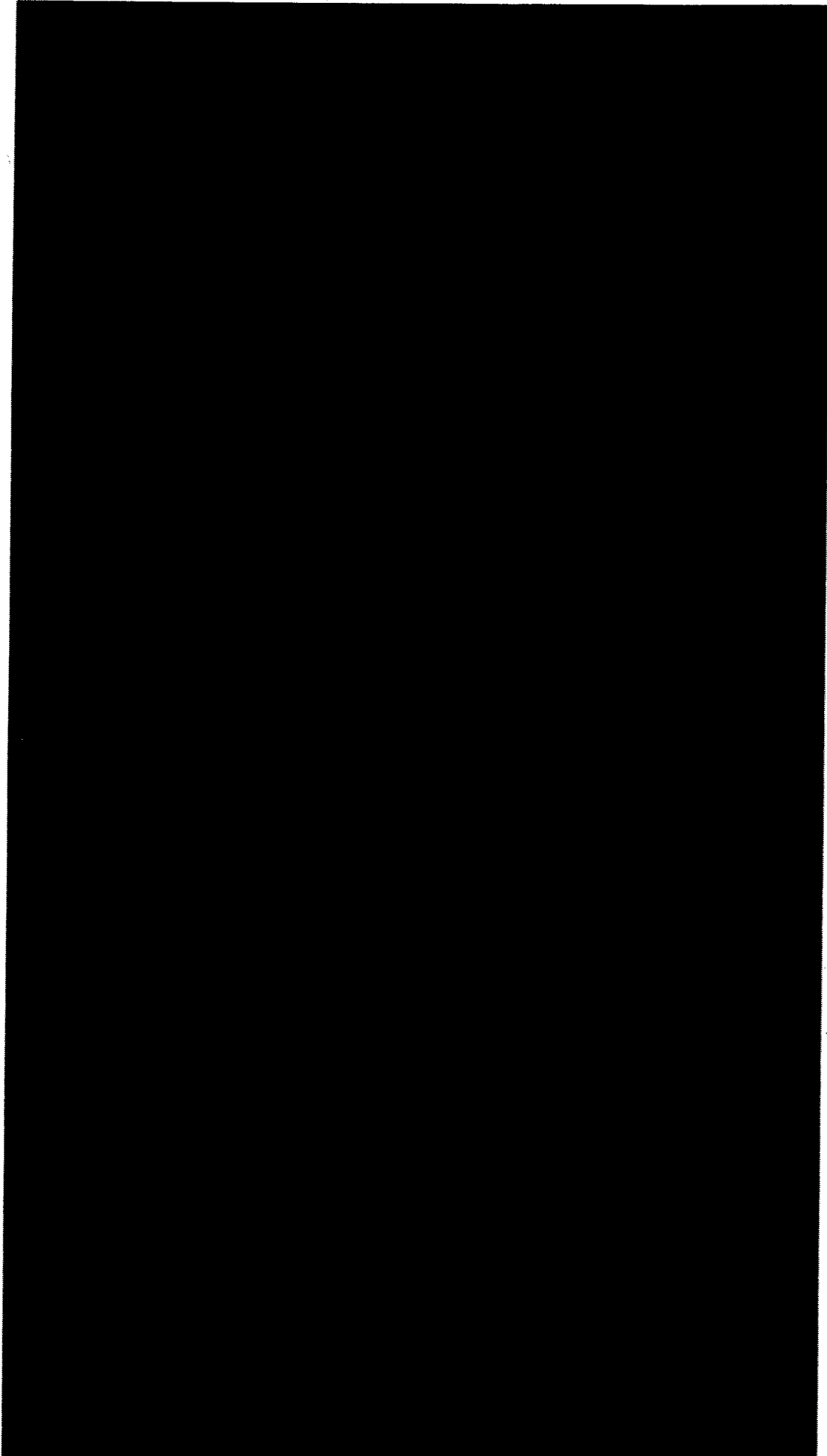
PATTERNS									
TYPE	PATT HGT	PATT SPD	Downwind Trk & Rge	Inbound HDG	Action Rge	TIP	LOA	Rel	MRH

<p>TECHNIQUE</p> <p>WOTIF</p> <p><i>Weather</i></p> <p><i>Environmentals</i></p> <p><i>LDP advice</i></p> <p><i>Latecomer?</i></p> <p><i>Pattern Changes</i></p> <p><i>Decommit criteria</i></p>	<p>SAFETY</p> <p><i>Coffin Corner</i></p> <p><i>Blind?</i></p> <p><i>Lose SA</i></p> <p><i>Tgt fixation</i></p> <p><i>Recovery</i></p> <p>"Recover"</p>
--	---

QUESTIONS?

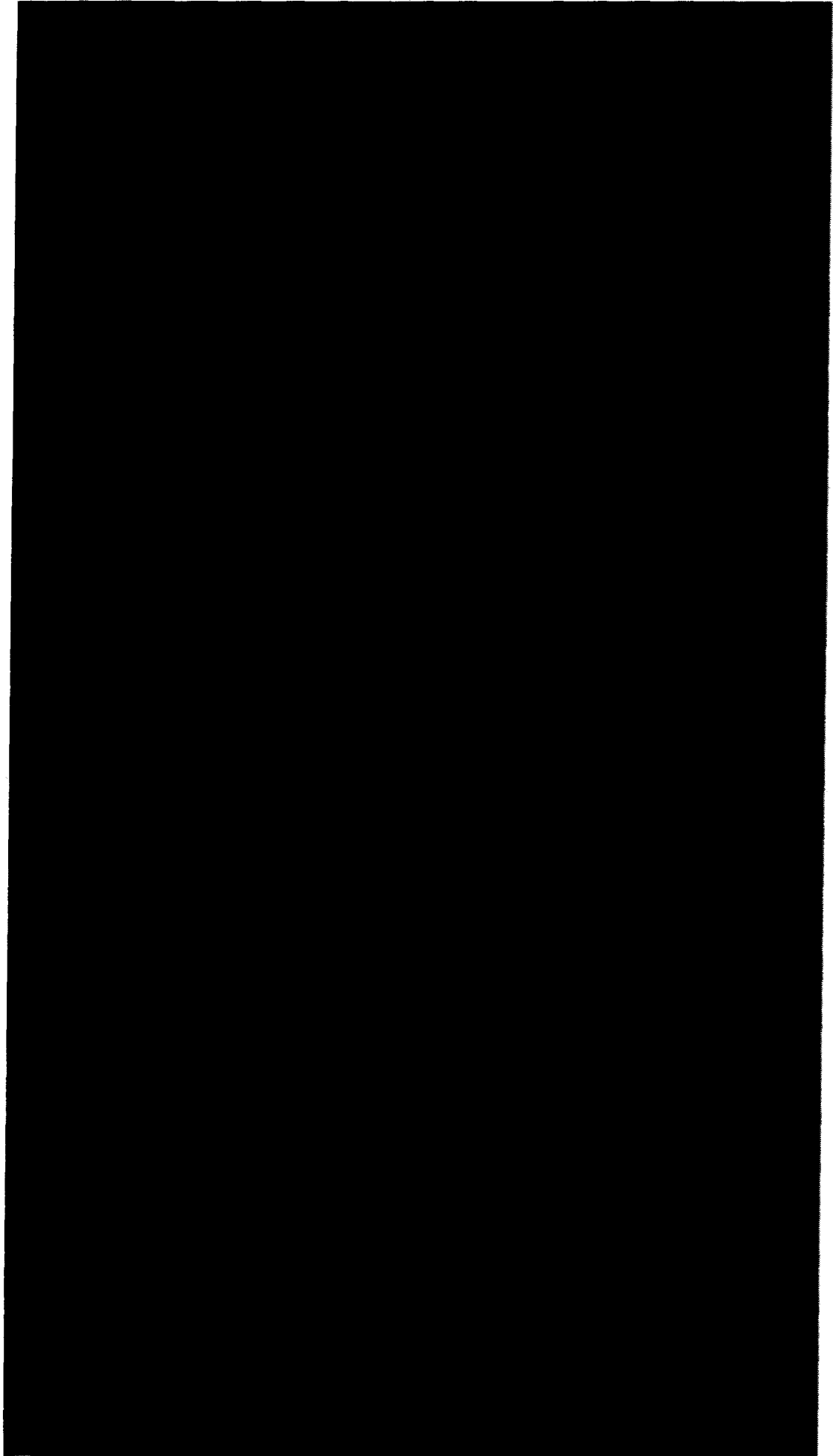
(continued)

Typhoon SOP Briefing Guide - *continued*

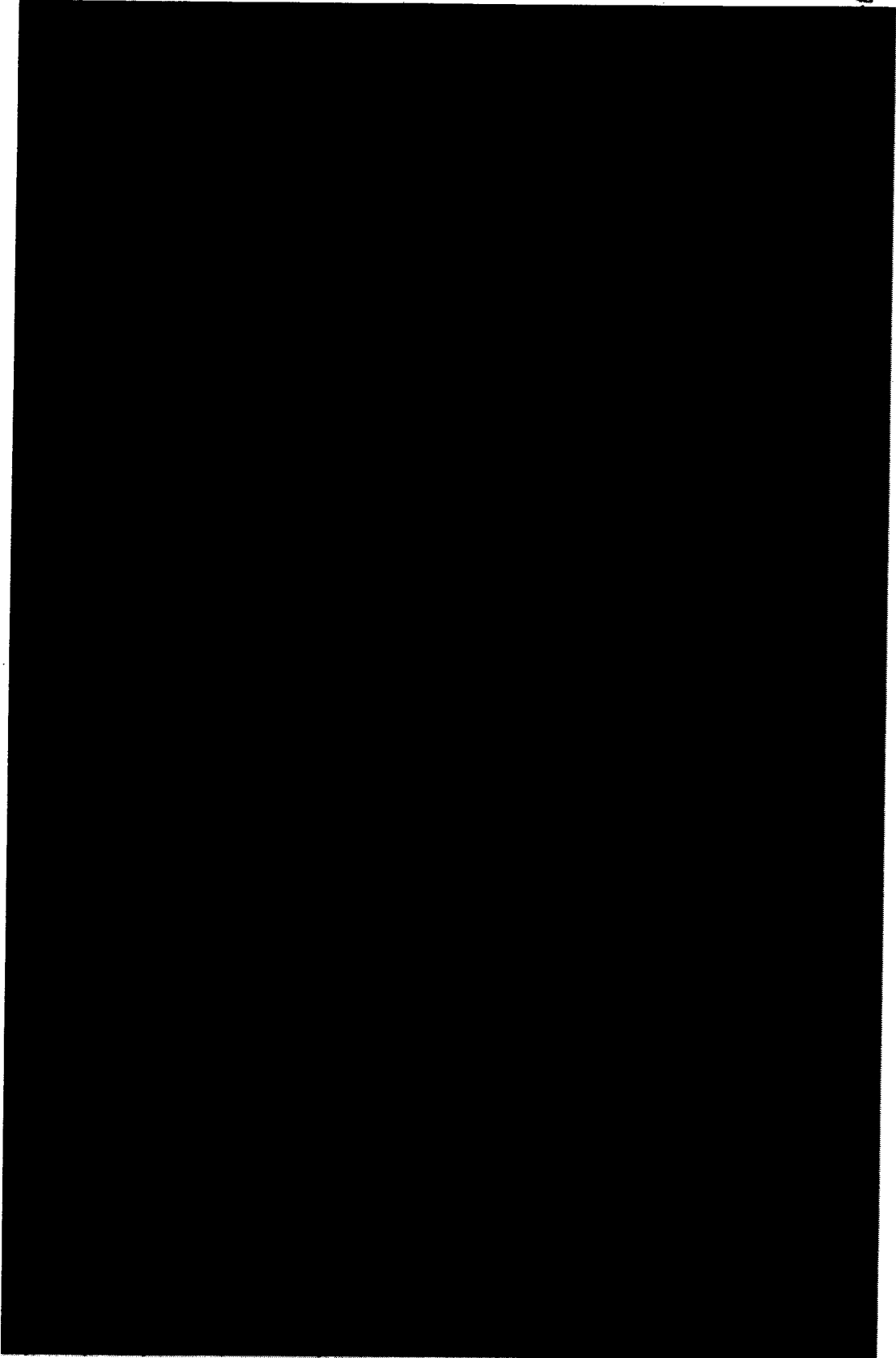


(continued)

Typhoon SOP Briefing Guide - *continued*

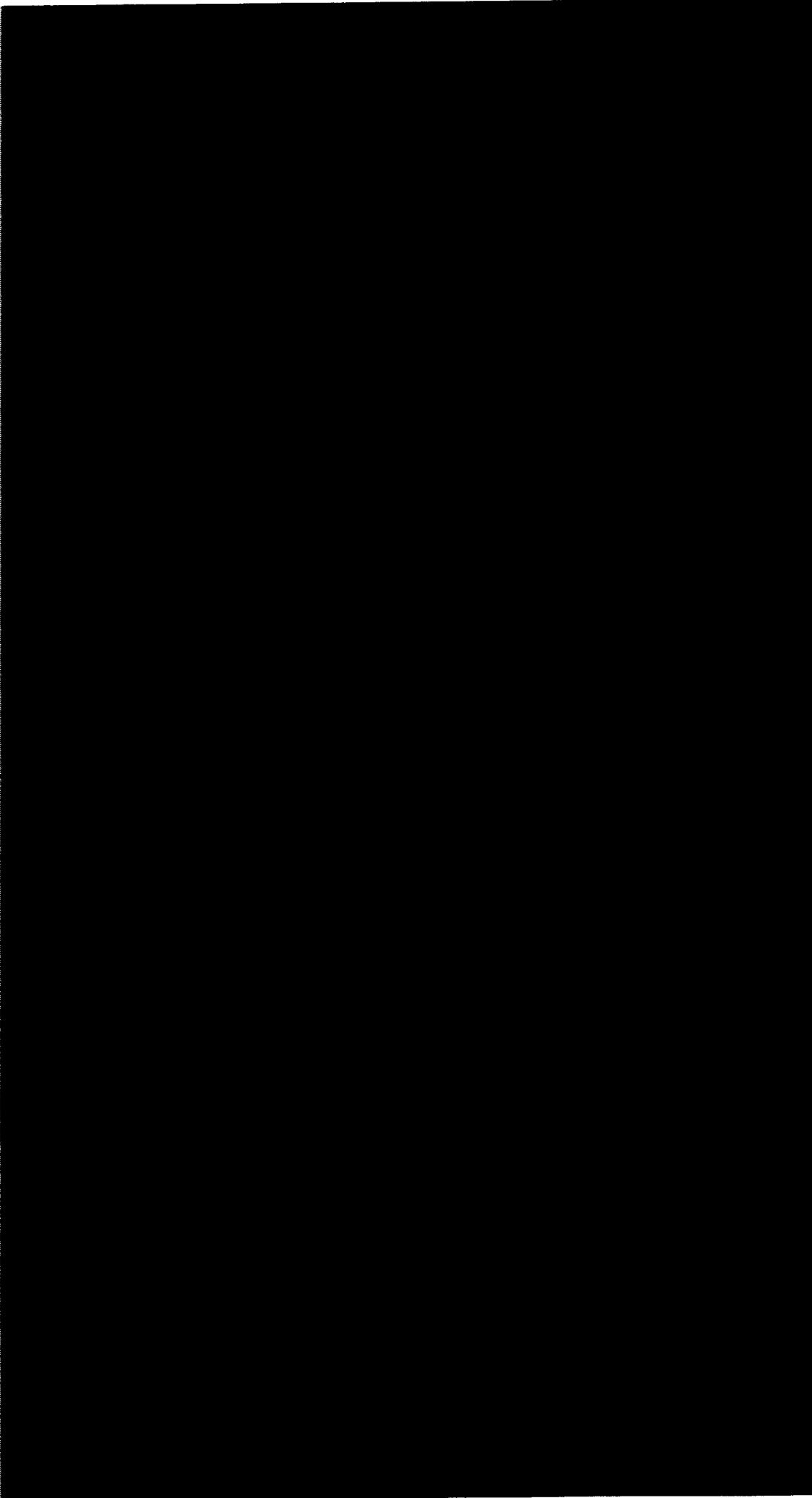


COMAO BRIEFING GUIDE



(inued)

COMAO Briefing Guide - continued



TIME SLICE AT:

