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Appendix A

Artillery Fire Plan

Copy no. ___ of ___ copies
Issuing Headquarters
Place of Issue
Date Time Group (DTG)

**TAB B (Artillery Fire Plan) to APPENDIX 19 (Fire Support) to ANNEX C (Operations)
to Operation Order _____**

Ref:

Time Zone:

1. SITUATION

(This is a modified version of Higher Headquarters' Fire Support Annex Situation, expanding on the friendly and enemy fire support systems)

- **Enemy Forces.** Number, Type, and Capabilities of enemy fire support including air assets. Include air and ground threats to subordinate elements.
- **Friendly Forces.** Mission of higher artillery headquarters or maneuver unit. Missions of adjacent, supporting, and reinforcing units. Include the regimental commander's intent for fire support (Division commander's intent for GS/GSR missions).

2. MISSION

(Example – Attack in Zone: 1/10 (DS) and 5/10 (R) provide close fires in support of 2nd MAR's attack in zone NLT 100400NOV00 to destroy the enemy forces in order to reestablish FLOT along PL BLUE)

(Example – Movement to Contact: 1/10 (DS) and 5/10 (R) provide close fires in support of 2 MAR's movement to contact in zone NLT 100400NOV00 to destroy the 49th Tank Brigade's stay behind forces in order to establish crossing sites for the passage of 8 MAR along PL RED)

3. EXECUTION

- **Commander's Intent.** Briefly address higher's intent (to include commander's guidance, critical vulnerability, etc.) of artillery fires and the effects with respect to the relationship among the force, the enemy, and terrain.

MCWP 3-16.1 Marine Artillery Operations

1
2 **a. Concept of Artillery Support**
3

- 4 • Detailed statement of artillery commander's visualization of artillery support, by
5 phase/EFAT, to the desired effects.
- 6 • Detailed explanation of how to achieve the commander's intent.
- 7 • Include summary of maneuver phases: "This is a ___ phase operation..."
8

9 **b. Organization for Combat**
10

- 11 • Organization and tactical missions of subordinate units, by phase (include
12 organic and reinforcing artillery).
- 13 • Include anticipated on-order missions.
14

15 **c. Tasks to Subordinate Units**
16

- 17 • Tasks by unit by phase.
- 18 • Include EFAT tasked to specific battery(s).
19

20 **d. Coordinating Instructions.** Includes instructions and details to coordinate details
21 applicable to two or more subordinate elements. These instructions may also be
22 included in a number of **enclosures** to the artillery fire plan. If separate enclosures are
23 developed, include in this paragraph only those items of general interest, with details in
24 the enclosure. If an enclosure is produced, reference it in the artillery fire plan. This
25 paragraph should address the following at a minimum.
26

- 27 • Target acquisition.
- 28 • Survey/MET plan.
- 29 • Automated Fire Control.
- 30 • HPTL.
- 31 • AGM.
- 32 • NBC Defense.
- 33 • Fire plans.
- 34 • PIRs.
- 35 • Ammunition restrictions.
- 36 • Anti-fratricide measures.
- 37 • Rehearsals.
38

39 **4. ADMINISTRATION AND LOGISTICS**
40

- 41 • Support area locations; next higher support priorities.
- 42 • Significant/unusual CSS issues that impact operation.
- 43 • Can be done in matrix format.

MCWP 3-16.1 Marine Artillery Operations

- Make reference to Annex D (Logistics), Annex P (Combat Service Support), and/or administrative/logistics orders. Identify ammunition availability, allocations, and ammunition management measures.

5. COMMAND AND SIGNAL

a. Command. Locations of artillery battalion and regimental COCs and commanders.

b. Signal. CEOI, special signal instructions, retrans locations, digital subscriber tables and device settings.

ACKNOWLEDGE RECIEPT

/s/-----

ENCLOSURES:

- 1 Artillery Target List**
- 2 Artillery Synchronization Matrix**
- 3 Target Overlay**
- 4 Schedules of fire**
- 5 Observation/Target Acquisition Plan**
- 6 Survey/Metro Plan**

MCWP 3-16.1 Marine Artillery Operations

ENCLOSURE 1 (Artillery Targets) to TAB B (Artillery Fire Plan) to APPENDIX 19 (Fire Support) to ANNEX C (Operations) to Operation Order - -

2 nd Bn, 7 th Mar, 1 st MarDiv (OPORD Tomahawk) 120620Zsep95		TARGET LIST WORKSHEET				DATUM: WGS-84		SHEET _____ of _____			
For use of this form see FM 6-20-40; Proponent agency is TRADOC											
LINE NO	TARGET NO A	DESCRIPTION b	LOCATION c	ALTITUDE d	ATTITUDE e	SIZE		SOURCE/ ACCURACY h	REMARKS i		
						LENGTH f	WIDTH g				
1	AE 0002	82mm Mtr Plt (4 tubes)	923435	215							
2	AE 0003	Mech Inf in trenchline	918560	210	1600	400			DPICM		
3	AE 0004	Logistics Site	920450	270	2900	400	300				
4	AE 3000	Suspected Regt CP	947343	200		Radius 500			50%VT/ 50%WP		
5	AE 3001	FPF	875689	213	1650	300			E Co		
6	AE 3002	Suspected OP	885670						TRP A		

ENCLOSURE 2 (Artillery Synchronization Matrix) to TAB B (Artillery Fire Plan) to APPENDIX 19 (Fire Support) to ANNEX C (Operations) to Operation Order - -

Ref: Map

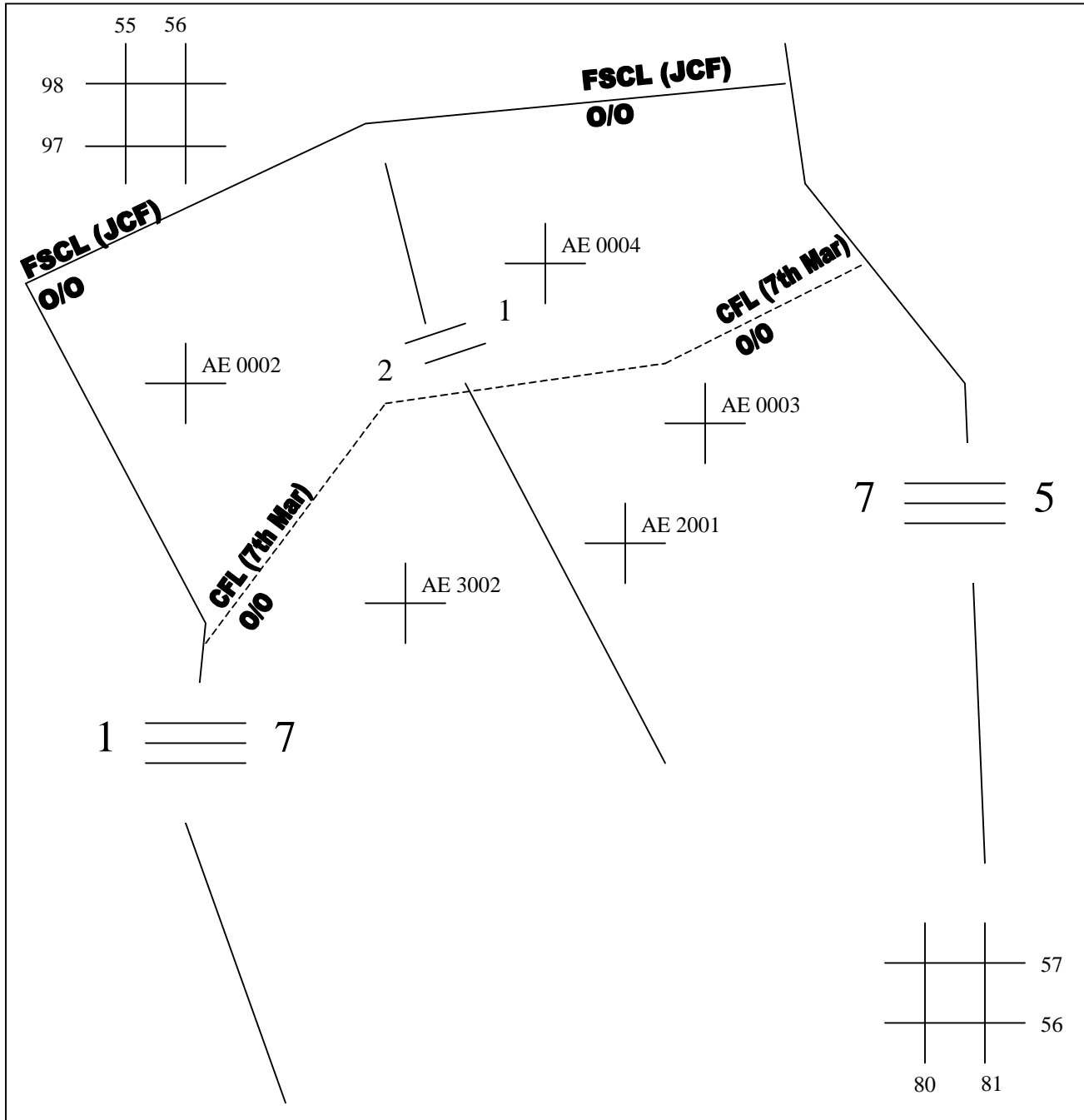
		Phase 1		Phase 2		Phase 3		Phase 4	
Phases		LD to Obj Penny		Obj Nickel		Obj Dime		Obj Quarter	
Enemy		Cntr-Btry threat – Med		Cntr-Btry threat – Med		Cntr-Btry threat - HIGH			
MVR	1/7	(SE) Rte April to clear Obj Sixpence		Mvmt to Contact along Rte April to PL Quiver		Atk to seize Obj Ring		Defend Obj Ring	
	2/7	(ME) Mvmt to Contact Rte Julie to clear Obj Penny		Along Rte Julie, Atk to seize Obj Nickel		1 st LAR Fwd Pass. of lines. Helo Co to SBF 1 Become Regt reserve			
FSCMs	CFL	PL Quiver % PL Archer		PL Diamond					
	FSC L	PL Ruby							
		Event	Trigger	Event	Trigger	Event	Trigger	Event	Trigger
Btry I	Move	1. PA 9 AoF 1600	1. N/A 2. %			2. R3P vic CP 56	2. EOM AE2003	1. PA 33 AoF 1100	1. R3P complete
	Essential Task	1. Mass Bn (A1E): Btry 2 - AE 0001	1. 1/7 at PL Orange			1. Fire Smoke - AE 2003	1. 2/7 clears Obj Dime	1. Mass Bn (A3D): Btry 2 - AE 2007	1. En. crosses PL Arrow
Btry K	Move	1. PA 10 AoF 1600	1. N/A	3. PA 28 AoF 1500	3. EOM AE 0004				
	Essential Task	1. Mass Bn (A1D): Btry 3 - AE 0002	1. 1/7 at PL Orange	1. Fire CPHD AE0003, 2 Rds	1. A/1/7 acquires 2. 1/7 crosses PL Quiver			1. Mass Bn (A3D): Btry 2 - AE 2007	1. En. crosses PL Arrow
COC		Move to PA 32 when K FIRECAP							
Survey		Pri: I, K		Pri to A/1/7 OP, Vic 435427, K, I		Pri: K,I			
Radar		N/A							
Field Trains/LOC		AA Red/ PA 1		Move to PA 37 when Bn clear PL Bow					
Ammo/POL						R3P: Btry I Class I, V, IX vic CP 56		R3P: Btry K Class I, V, IX vic CP 56	
BAS		Colocated with Field Trains/LOC							

MCWP 3-16.1 Marine Artillery Operations

1 **ENCLOSURE 3 (Artillery Target Overlay) to TAB B (Artillery Fire Plan) to APPENDIX**
2 **12 (Fire Support) to ANNEX C (Operations) to Operation Order - -**

3
4 Ref: Map

5
6 (The overlay contains artillery targets, fire support coordination measures, and unit
7 boundaries.)
8



MCWP 3-16.1 Marine Artillery Operations

1
2 **ENCLOSURE 4 (Artillery Fire Support Tables) to TAB B (Artillery Fire Plan) to**
3 **APPENDIX 19 (Fire Support) to ANNEX C (Operations) to Operation Order - -**
4

(Groups for 7 th Mar) OPORD Jungle Strike		SCHEDULING WORK SHEET										DTM: WGS-84 _____		
		For use of this form see FM 6-20-40: the proponent agency is TRADOC										SHEET <u> 1 </u> OF <u> 1 </u>		
LINE NO	ORGANIZATION AND CALIBER	FIRING UNITS											REMARKS	
			(A1E)	(A2E)										
1	3/11	I	AE0003 18(a)	AE2001 6										
2	(155, T)	L	AE0002 18(a)											
3		K	AC0002 18(a)	AE0003 6										
4	USS Churchill 5in/62	MT 1	AC0004 36											
														(a) HE/VT

5

(Series Dog for 2 nd Bn, 7 th Mar) OPORD Jungle Strike		SCHEDULING WORK SHEET										DTM: WGS-84 _____		
		For use of this form see FM 6-20-40: the proponent agency is TRADOC										SHEET <u> 1 </u> OF <u> 1 </u>		
LINE NO	ORGANIZATION AND CALIBER	FIRING UNITS											REMARKS	
			1	2	3	4	5	6	7					
1	1/12	A	AE0003 18(a)		AE3001 6									
2	(155, T)	B	AE0002 18(a)			AE0004 18(a)								
3		C	AE0002 18(a)		AE3001 6(b)									
4	USS Churchill 5in/62	MT 1		AE0004 36										
														(a) HE/VT (b) Provide WP Mark

6
7
8

MCWP 3-16.1 Marine Artillery Operations

1 Enclosure 5 (Observation/Target Acquisition) to Tab B (Artillery Fire Plan) to Appendix 2 19 (Fire Support) to ANNEX C (Operations) to Operation Order --

3
4 Ref: Map

5
6 Time Zone:

7 8 1. SITUATION

9
10 This paragraph should include the friendly situation, supported units, and other Target
11 Acquisition assets in sector. Include specific enemy and friendly assessments that form a
12 basis for threat assessments required on the radar deployment order.

13 14 2. MISSION

15
16 This paragraph should be a clear, concise statement of the target acquisition mission.

17 18 3. EXECUTION

19
20 The execution paragraph contains the subparagraphs described below.

21
22 a. Concept of Operation. This subparagraph gives the commander's concept for target
23 acquisition. This should include identification of designated cueing agents and general
24 cueing guidance. This guidance may include general instructions for offensive and
25 defensive phases of the operation. Specific cueing guidance is listed in the coordination
26 subparagraph.

27
28 b. Processing. The processing subparagraph is used to denote target processing flow.
29 This targeting information flow describes the relationship between the target acquirer
30 and the headquarters controlling the radar. This paragraph does not represent the actual
31 communications nets used but shows the destination flow of targeting information. This
32 paragraph should list all field artillery TA assets and headquarters controlling them. The
33 following are examples of the types of information that may be included in the
34 processing subparagraph:

35
36 (1) AN/TPQ-46A section reports targets to the supported artillery battalion COC.

37
38 (2) AN/TPQ-37 section reports targets to the Division or MEF Targeting Cell.

39
40 (3) Aerial fire support observer reports targets to the controlling headquarters COC.

41
42 (4) DS battalions report targeting data to the regimental COC.

43
44 (5) Any violations of Critical Friendly Zones (CFZ) or Call For Fire Zones (CFFZ) will
45 be sent directly from the radar to the associated artillery battalion.

MCWP 3-16.1 Marine Artillery Operations

1
2 c. Visual Observation. This subparagraph includes ground and air observation. Ground
3 observation is covered in Enclosure 1 to the TA tab, which is the consolidated visibility
4 diagram. Air observation should include Unmanned Aerial Vehicle assets attached or in
5 support of the operation.

6
7 d. Radar. This subparagraph deals with the missions and command and control
8 relationships
9 assigned to the fire finder radars. Radars may be attached to artillery battalion
10 headquarters or higher artillery headquarters. The attached radar assumes the mission of
11 the supported unit; for example, DS or GS.

12
13 (1) An example mission for an AN/TPQ-46A Team might be as follows:

14
15 (a) AN/TPQ-46A Team 1, HQ Btry 10th Mar; Mission: Attached to 1st
16 Bn 10th Mar. (DS). (See RDO, Exhibit 3.)

17
18 e. Coordination. The coordination subparagraph covers information that is not addressed
19 in the unit SOP. As a minimum the paragraph should contain the following:

20
21 (1) The requirement for the supported DS battalion to report its radar locations and
22 sectors of search to the regimental TPC.

23
24 (2) Cueing guidance assigned.

25
26 (3) Common sensor boundary. Firefinder radars sharing or having overlapping search
27 sectors need to be identified. Consideration must then be given to the establishment of a
28 CSB. The CSB is indicated by a series of grid coordinates to define its location.

29
30 (4) Coordination for communications nets and relays, if required.

31
32 (5) Additional coordination for met, survey and security, if required.

33
34 4. Service Support. This paragraph lists additional service support requirements as required.
35 It may refer to the service support annex.

36
37 5. Command and Signal. This paragraph lists required information as necessary. It may refer
38 to the fire support appendix

39 EXHIBITS:

- 40
41
42 1. Consolidated Visibility Diagram
43 2. Consolidated Capabilities Overlay
44 3. Radar Deployment Order

MCWP 3-16.1 Marine Artillery Operations

1
2 EXHIBIT 1 (Visibility Diagram) to ENCLOSURE 5 (Observation/Target Acquisition) To Tab
3 A (Artillery Fire Plan) to APPENDIX 19 (Fire Support) to ANNEX C (Operations) to
4 Operation Order –

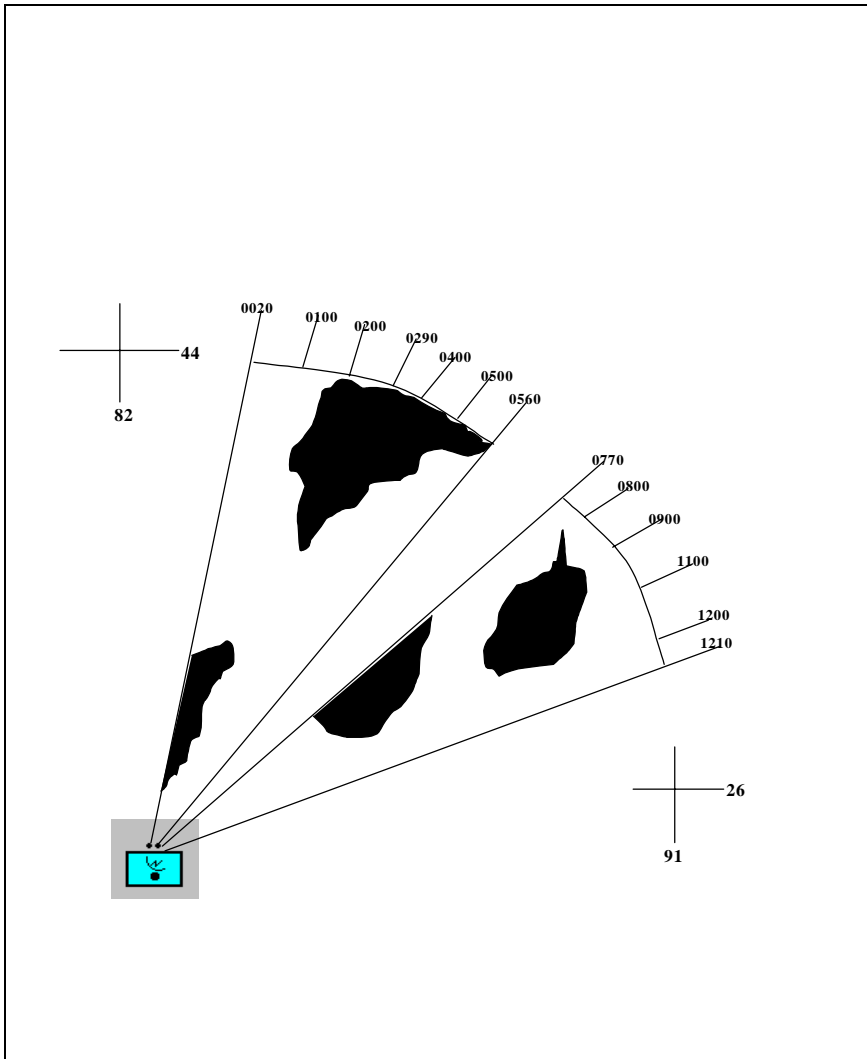
5
6 Information Included: Map

7 Series
8 Created by
9 Unit
10 DTG
11 Weather

Radar Grid

Primary Az
Left Az
Right Az
Alt Az
Left Limit
Right Limit

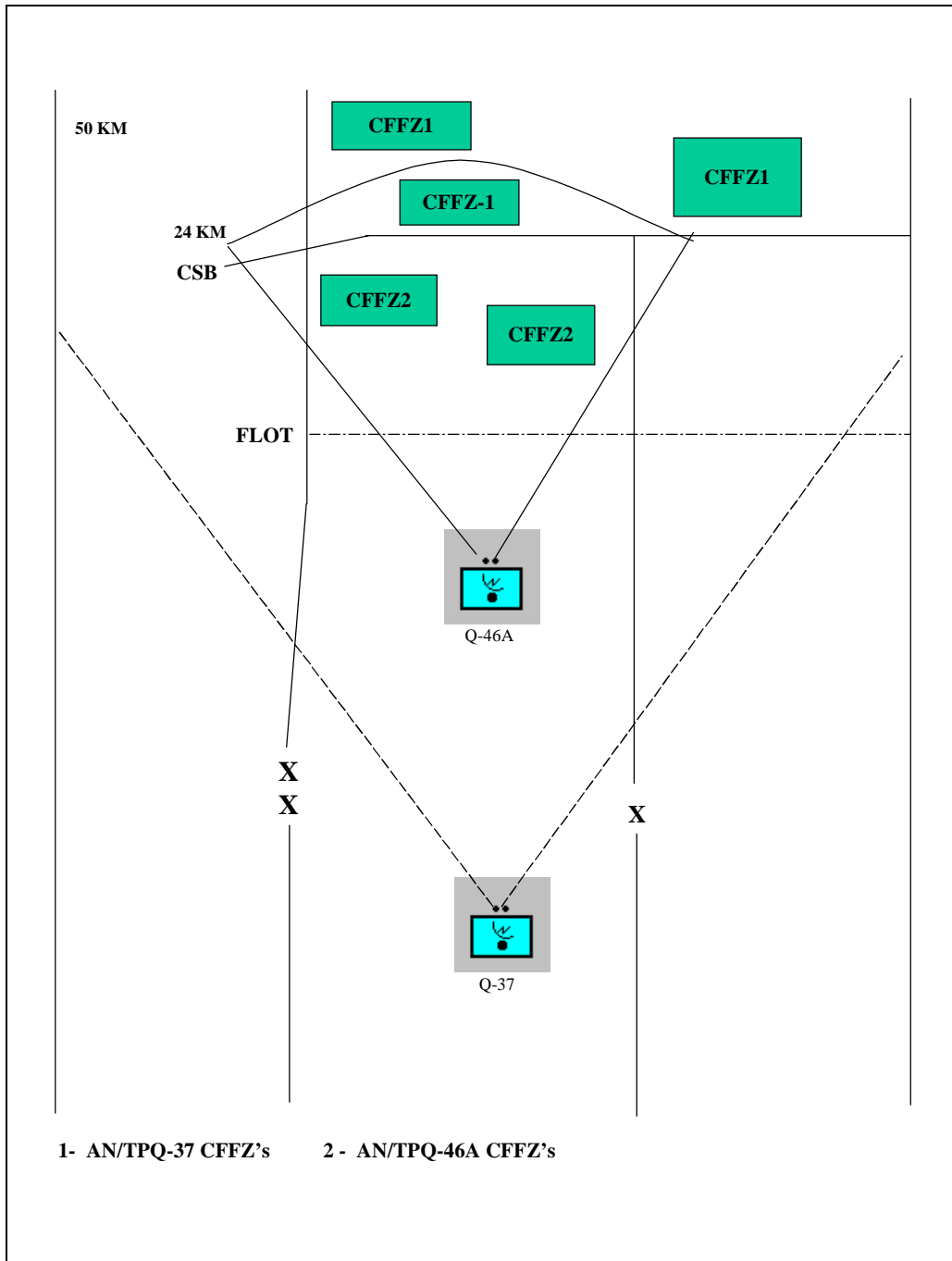
12
13
14 Note: Fire Finder Position Analysis System (FFPAS) located with the Radar Officer will
15 produce a visibility diagram and is recommended.
16



17
18

MCWP 3-16.1 Marine Artillery Operations

1 EXHIBIT 2 (Capabilities Overlay) to ENCLOSURE 5 (Observation/Target Acquisition) To
2 Tab A (Artillery Fire Plan) to APPENDIX 19 (Fire Support) to ANNEX C (Operations) to
3 Operation Order –
4
5



6
7
8
9
10

MCWP 3-16.1 Marine Artillery Operations

1 EXHIBIT 3 (Radar Deployment Order) to ENCLOSURE 5 (Observation/Target Acquisition)
 2 To Tab A (Artillery Fire Plan) to APPENDIX 19 (Fire Support) to ANNEX C (Operations) to
 3 Operation Order –
 4

RADAR DEPLOYMENT ORDER				
For use of this form, see FM 6-121. The proponent agency is TRADOC				
SECTION		MISSION		
MISSION	PRIMARY	ALTERNATE		
SEARCH SECTOR				
	Left Edge	Right Edge	Min Range	Max Range
Primary Azimuth	Mils	Mils	meters	meters
Alternate Azimuth	Mils	Mils	Meters	meters
EW THREAT ASSESMENT				
EW Threat (Yes or No)	Affecting Friendly Assets (Yes or No)		Type of Threat (Air or Ground)	
Note: Use the Firefinder survivability flowchart in FM 6-121 to determine emission limits				
CUEING AGENTS (CALL SIGN AND DESIGNATION) IN PRIORITY				
REPORTING CHANNELS				
ZONE DATA				
Type and Number	Description and/or Command Priority	Grid coordinates of Zone corner points		

5 DA FORM 5957-R, SEP 1990

6

MCWP 3-16.1 Marine Artillery Operations

1
2 **ENCLOSURE 6 (Survey/Metro Plan) to TAB B (Artillery Fire Plan) to APPENDIX 12**
3 **(Fire Support) to ANNEX C (Operations) to Operation Order - -**

4
5 (This enclosure provides information concerning survey and meteorology operations.
6 Requirements and methods of dissemination are addressed. Support requirements to other
7 units/agencies [e.g., radar beacon teams] are identified).

8
9 Ref:

10
11 Time Zone:

12
13 1. **SITUATION.** This paragraph consists of the units who will have an effect on the survey
14 plan.

- 15
16 • **Enemy.** Intelligence and information concerning the enemy which may affect survey
17 operations (routes, weapons, and etc.)
18 • **Friendly.** The friendly (higher, lower, and adjacent units) situation as it affects survey
19 and MET operations.
20 • **Attachments and detachments.** Units who can provide support to survey operations
21 (security, maintenance, other survey teams).

22
23 2. **MISSION.** This is a clear, concise statement of the task to be performed by the survey
24 and MET section. It should answer *who, what, where, when, why.*

25
26 3. **EXECUTION.** This paragraph consists of several subparagraphs which answers the *how.*

- 27
28 • **Concept of operations.** This subparagraph describes the survey and meteorological
29 methods to be used.
30 • **Specific instruction to each party.** These sub paragraphs contain specific instructions
31 which each team requires in order to accomplish its portion of the mission. This
32 information includes survey control to be used by the teams, general locations (six digit
33 grids) for required control, frequency and location of MET reports, and information
34 which deviates from SOPs. These instruction should be in concert with the EFATs.
35 • **Coordinating instruction.** Information required by two or more parties.

36
37 4. **ADMINISTRATION AND LOGISTICS.** This paragraph contains the necessary
38 information to ensure CSS is adequate for the mission. Information concerning reporting,
39 classes of supply, handling of prisoners, and location of the aid station will be addressed.

40
41 5. **COMMAND AND SIGNAL.** Addresses the location of the survey officer/chief,
42 frequencies, call signs, CASEVAC procedures, and communications between survey/MET
43 teams.
44