

FO & FO RTO BREVITY SHEET

123 / 3400 / 2000 (grids, mils any figures)

“ONE TWO THREE”, “THREE FOUR HUNDRED”,
“TWO THOUSAND”

PHONETIC NATO ALPHABET

A	ALFA	N	NOVEMBER
B	BRAVO	O	OCTOBER
C	CHARLIE	P	PAPA
D	DELTA	Q	QUEBECK
E	ECHO	R	ROMEO
F	FOXTROT	S	SIERRA
G	GOLF	T	TANGO
H	HOTEL	U	UNIFORM
I	INDIA	V	VICTOR
J	JULIET	W	WHISKY
K	KILO	X	XRAY
L	LIMA	Y	YANKEE
M	MIKE	Z	ZULU

WARNO

Warning order, same as: type of engagement.

ADJUST FIRE (WARNO)

The FO requests the FDC to send one round (per available gun!) for the purpose of adjusting the round impact onto target.

It is important to state that the FO will still request the entire amount of rounds needed for the fire for effect call!

If only a single round is to be fired, read ‘Type of Adjustment (MoE)’ - Precision Fire.

Used when the FO is unsure that ordnance impact is within 50m of the target. When adjusted or on target, usually a fire for effect request is sent as the next step.

FIRE FOR EFFECT (WARNO)

The FO requests all rounds requested in this call to be fired without impact adjustment. This is the default warno for most requests.

Used when the FO is certain that the rounds will impact within 50m (or less) of the target.

IMMEDIATE SUPPRESSION (WARNO)

A standardized request format depending on the artillery unit / FDO for targets of opportunity and troops in dire need of fire support.

If not mentioned in briefing or by the leader of the missions artillery unit, do not use to avoid confusion.

IMMEDIATE SMOKE (WARNO)

A standardized request format depending on the artillery unit / FDO for screening friendly or enemy units.

SUPPRESSION (WARNO)

The FO requests rounds to be fired at a specific interval to suppress, delay or fix enemy units.

Interval will be given in the third transmission of the CFF (target description).

ILLUMINATION (WARNO)

The FO requests illumination rounds (usually chute flares) to be fired above a specified area.

METHOD OF TARGET LOCATION

Part of the CFF, can be a GRID, a polar plot or a pre-briefed known point. [GRID, POLAR, LASER POLAR, KNOWN POINT].

TARGET DESCRIPTION

Third transmission of the CFF. Includes: target type, target action, number of elements in target, target protection and if necessary target size in length, width and attitude.

METHOD OF ENGAGEMENT (MOE)

Part of the third transmission of the CFF. The FO can designate how he intends to engage the target.

TYPE OF ADJUSTMENT (MOE)

There are two types, precision and area. Area is used by default if precision is not announced.

Precision Fire is executed by a **single gun** on a **single point target** for the purpose of target registration or target destruction. Announced as: “Type Adjustment: Precision; (destruction/registration).”

Area Fire is the **default type** of fire used at UO and usually identifies a **point** at the center of the target **all guns will fire on**.

DANGER CLOSE (MOE)

Danger Close is announced if rounds **could** impact within 600m of blufor, neutral or allied forces.

MARK (MOE)

This implies that the called rounds are requested for one of two reasons:

- 1) To orient himself by using the impact. ‘MARK, orientation.’
- 2) To indicate targets to ground troops. ‘MARK, indication.’

TRAJECTORY (MOE)

Low-angle fire is the artillery default. If High-angle is not announced right past the type of engagement, the default is used.

Platoon and Squad Mortars will **ONLY fire high-angle!**

AMMUNITION (MOE)

The FO may request projectile, fuze and volume. If not given the FDO will decide these to the best using the given information.

Be advised that the volume is given in ‘rounds’. Requesting 2 rounds will end in 2 salvos being shot with every gun available to the FFE call.

SALVO

If a firing unit consists out of 4 howitzers, one ‘round’ will cause every available gun to fire one round, which is called a battery ‘salvo’.

DISTRIBUTION (MOE)

The default sheaf spans for a 100m target radius and will distribute the shells accordingly. The FO may request converged, open, linear or irregular sheafs, but has to

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provide width, length and attitude of the target.

Converged sheafs are used for small, hardcover point targets while open sheafs usually designate area targets of a specified layout.

METHOD OF FIRE AND CONTROL (MO-FAC)

The FO can specify if he wishes specific parts of the battery to be used to adjust fire or fire for effect. Using these options enables specific impact effects and might engagement at long ranges.

METHOD OF FIRE (MO-FAC)

If the FO determines that fires should be conducted with specific guns of the battery like 'Platoon Right (left)' or 'Platoon Left (right)' he can do so in this line.

METHOD OF CONTROL (MO-FAC)

There are multiple predefined control words the FO can use to indicate the preferred way of fire control.

At My Command

Indicates that the FO has control over the discharge of the battery. The FDO will respond with 'Battery is ready, over.' when all guns available are loaded. FO sends 'ABORT/FIRE'.

Cannot Observe

This indicates that the FO is not able to provide a BDR or any adjustment on the fires. This usually is the case with relayed fire support requests.

Only ever use this method of fire if you are 100% sure that the relayed target is accurate and of enough importance to justify fire w/o adjustment or visual confirmation.

Time on Target

The FO can transmit a time (NOT a time of flight, but a fixed time of impact i.e. 2000 local) he wants all shells or the first salvo of more to impact on the target location. 'TOT 7 minutes from now, over.'; 'TOT at 1114, over.'

Continuous Illumination

It makes sense to leave the interval of the Illumination to the

FDO and let him calculate said value by using the ammunitions burn time.

Coordinated Illumination

This can be used by the FO to request/coordinate area illumination on ordnance impact. Calculation is done by the FDO.

Cease Loading

While the battery fires, the FO can use this command to abort all further shells being loaded, shells already loaded will be fired.

Check Firing

Used to immediately halt all battery firing w/o regard to loading status of guns.

Continuous Fire

The FO requests that all guns may be loaded and fired as accurately and fast as operation and crew permits. The fires will only stopped if negated by one of the above commands.

Repeat

The proper request word for sending another adjustment round. To repeat an entire fire mission make sure to repeat it straight after the FFE or let it be recorded by the FDO.

Followed By

This is used in the Fire for Effect call. It indicates a change in rate of fire or ammunition. 'Willy Pete followed by HE, over.'

CORRECTION

If errors are made while the FO sending or the FDO reading back a transmission the FO will respond with the proword 'Correction' followed by the entire transmission with corrected content. the FDO is required to read back again.

EXAMPLE FIRE MISSION GRID (MtO integrated)

INITIAL FIRE REQUEST

FO/FO RTO/RTO

FDO/FDC

'M31 THIS IS D34,
FIRE FOR EFFECT, HIGH-ANGLE, OVER.'

'THIS IS MIKE34,
FIRE FOR EFFECT, HIGH-ANGLE, OUT.'

'GRID, FIGURES,
1-3-0-4-4 0-9-3-5-6, OVER.'

'GRID, 13044-09356, OUT.'

'2 ARMoured PERSONNEL CARRIERS,
IN TREELINE,
DISTRIBUTION SHEAF LINEAR,
125 METERS BY 5 METERS LEFT TO RIGHT,
ATTITUDE 2650 MILS,
COORDINATED ILLUMINATION,
2 ROUNDS HE,
AT MY COMMAND, OVER.'

'TWO APCs,
IN TREELINE,
DISTRIBUTION SHEAF LINEAR,
125 METERS BY 5 METERS LEFT TO RIGHT,
ATTITUDE 2650 MILS,
COORDINATED ILLUMINATION,
2 ROUNDS HE,
AT YOUR COMMAND,
AUTHENTICATE LIMA WHISKY, OVER.'

'I AUTHENTICATE
OCTOBER, OUT.'

'MIKE, 2 ROUNDS, FULL SALVO,
TARGET NUMBER AA0001,
BATTERY IS READY, OVER.'

'DELTA, 2 ROUNDS FULL SALVO,
TARGET NUMBER AA0001,
FIRE, OVER.'

'MIKE, FIRE, OUT.'