**Recommended Instructions:**

1. Print, fold in half, trim edges, and laminate.
2. Send any updates to: info@mypatrolbase.com. Thanks.

**CALL FOR FIRE GRID**

I. FDC de \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Over)

 (1. Observer ID) (2. WARNO: Adjust, Fire for Effect, Immediate)

II. Grid \_\_\_\_\_\_\_\_\_\_\_\_\_, Altitude \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (If greater than 35m) (Over)

III. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Over)

 (4. Target Description: SNAPS) (5. Method of Engagement) (6. Method of Fire & Control)

V. MTO VI. Adjust \_\_\_\_\_\_\_\_\_\_\_\_\_ VII. BDA & RREMS \_\_\_\_\_\_\_\_\_\_\_\_\_

**POLAR (FROM YOUR KNOWN LOCATION)**

I. FDC de \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_(WARNO) POLAR\_\_\_\_\_\_\_\_\_ (Over)

 (1. Observer ID) (2. WARNO: Adjust, Fire for Effect, Immediate)

II. OT Dir \_\_\_\_\_\_\_\_mils\_ Distance \_\_\_\_\_\_\_\_\_\_m\_ Up/Dn \_\_\_\_\_\_\_\_\_\_ (Over)

 (If greater than 35m)

III. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Over)

 (4. Target Description: SNAPS) (5. Method of Engagement) (6. Method of Fire & Control)

V. MTO VI. Adjust \_\_\_\_\_\_\_\_\_\_\_\_\_ VII. BDA & RREMS \_\_\_\_\_\_\_\_\_\_\_\_\_

**SHIFT (FROM KNOWN POINT)**

I. FDC de \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_(WARNO) SHIFT FROM (GRID)\_\_\_\_ (Over)

 (1. Observer ID) (2. WARNO: Adjust, Fire for Effect, Immediate)

II. OT Dir \_\_\_\_mils L/R \_\_\_\_\_ Add/Drop \_\_\_\_\_\_ Up/Dn \_\_\_\_\_ (Over)

 (Nearest 5m) (Nearest 100m) (Nearest 5m if greater than 35m)

III. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Over)

 (4. Target Description: SNAPS) (5. Method of Engagement) (6. Method of Fire & Control)

V. MTO VI. Adjust \_\_\_\_\_\_\_\_\_\_\_\_\_ VII. BDA & RREMS \_\_\_\_\_\_\_\_\_\_\_\_\_

***Range Estimation:***

***Basic Conversions:*** *1 foot = .3048m. 1 inch = .0254m*

***Mil-Relation Method*** *(*each reticle tic is 5 mils): 1. *Estimate height in feet. 2. Multiply by .3 to get meters. 3. Multiple meters by 1,000. 4. Divide result by number of mils in the reticle*

***WARNO:*** *Adjust Fire (inaccurate location; one rnd at a time until FFE), Fire for Effect (precise location/no adjustment), Immediate (suppression, smoke, etc.)*

***Description:*** *SNAPS: Size, Name/Nomenclature, Activity, Protection/Posture, Shape*

***Target Shapes:******Point*** *- target < 200m.* ***Linear*** *- target > 200m long (but less than 600m). Include Attitude (the azimuth of the long axis in mils).* ***Rectangular*** *- target > 200m in each direction.* ***Circular***

***Method of Engagement:*** *Ammo type (HE, WP, ICM/DPICM, EXCAL), fuze (quick, delay, VT/proximity), Distance from Friendlies (Danger Close if < 600m), Trajectory (low-angle or high-angle (i.e.: when target is surround by obstacles), Mark (using RNDs to ID a target).* ***FDC usually determines these:*** *Volume of Fire (# of RNDs per gun), type of adjustment (Area (standard) or Precision Fire), Distribution (burst pattern/sheaf)*

***Method of Fire & Control:******Method of Fire:*** *not common.* ***Method of Control:*** *When Read (standard), Restricted When Ready (last shell NLT \_\_\_ min from now), At My Command, Cannot Observe (can’t see target), Time on Target (at a specific time), Check Fire (recheck fire data), Fire Again (use same data)*

***Adjust:*** *Left/Right (lateral), Add/Drop (range), Up/Down (vertical)*

***Message to Observer (MTO) starting when Call for Fire segment complete:***

* *FDC: tells observer various info like: any changes, time of flight, # of guns & RNDs*
* *FDC fires first shot: “Shot Over”.*
* *Observer: “Shot Out.”*
* *FDC: 3 seconds to impact, FDC radios “Splash Over”.*
* *Observer: “Splash Out.”*
* *Observer: “Rounds Complete, over” when impact has occurred*
* *Observer: views BDA.* ***End Mission:*** *calls “End of Mission. Tank*

*destroyed. Estimate 25 casualties.”* ***Continue Same Mission:*** *“Repeat”.*

***OT Math:***

*One mil of distance at 1,000m is 1m*

*OT Direction/Distance = direction/distance to target in mils/meters*

*OT Factor = distance from observer to target divided by 1,000*

*Lateral Shift Calc. in Meters = OTF x distance-from-impact-to-target in mils*

***Making Adjustments:***

* *One-Rnd Adjustment (skilled)*
* *Successive Bracketing - one shell over & one shell past & keep halving distance until 50m, i.e.: “Drop 50, FFE”*
* *Hasty Bracketing - one bracket used*
* *Creeping Fire - intentionally start off the target and then “creep” RNDs in, used in danger close*

***Mission Over***

* *Give BDA & Target Activity*
* *Optional: give RREMS (Refinements, Record as Target, End of Mission, Surveillance of Target)*
* Add/Drop (range shift) = round moves further or closer
* Left/Right (lateral shift) = round moves left or right
* Up/Down (vertical shift) = round explodes higher or lower (elevated surface or above ground)
* Sheaf = the area in which rounds from a battery on falling

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