## FALLOUT PREDICTION WORKSHEET-SURFACE BURST

For use of this form, see FM 3-3-1; the proponent agency is TRADOC

a. Time of burst (date-time group) _____ DELTA DDtttt (local or ZULU)

b. GZ Coordinates _____ FOXTROT yyzzzzzz (actual or estimated)

c. FY/TY Ratio (from target analyst for friendly weapons only) _____

d. HOB (from target analyst for friendly weapons only) _____ meters

e. Yield _____ KT or MT

f. Cloud-top Height (Fig. 4-3) _____ $10^3$ meters or feet

g. Cloud-bottom Height (Fig. 4-3) _____ $10^3$ meters or feet

h. 2/3 Stem Height (Fig. 4-3) _____ $10^3$ meters or feet

i. Stabilized Cloud Radius (Fig.4-3) _____ ZULU rr (KM)

j. Time of Fall from Cloud Bottom (Fig.4-3) _____ hours

Fallout Wind Vector Plot (Enter f, g, and h radial lines on wind vector plots and measure distance from GZ to cloud-bottom height)

k. Radial Line Distance from GZ to Cloud-Bottom Height _____ km

l. Effective Wind Speed = $\frac{\text{k (GZ to CB dist)}}{\text{j (Time of fall)}} = \_\_\_\_ \frac{\text{km}}{\text{hr}} =$ _____ ZULU sss (kmph)

m. Downwind Distance of Zone 1 (Enter Fig. 4-7 with i and e) _____ km

n. Adjustment = FY/TY Factor _____ (Enter Fig. 4-8 with e and c or use a 1) x HOB Factor _____ (Enter Fig.4-9 or 4-10 with d and e or use a 1) = _____

o. Adjust Downwind Distance of Zone 1 (m x n) _____ ZULU xxx (km)

Fallout Wind Vector Plot (Check lateral limits for 40 degrees)

p. Azimuth of Left Radial Line _____ YANKEE dddd (mils or degrees)

q. Azimuth of Right Radial Line _____ YANKEE cccc (mils or degrees)

r. NBC 3 Nuclear

ALFA AAA ___ ___ ___ (Strike Serial Number)

DELTA DDtttt ___ ___ ___ ___ ___ ___ (Local or ZULU)

FOXTROT yyzzzzzz ___ ___ ___ ___ ___ ___ ___ ___ (GZ coordinates-actual or estimated)

YANKEE ddddcccc ___ ___ ___ ___ ___ ___ ___ ___ (Azimuths or radial lines-mils or degrees)

ZULU sssxxxrr ___ ___ ___ ___ ___ ___ ___ ___

(effective wind speed) (downwind distance) (cloud radius)

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