Reproducible Forms

This appendix provides blank forms needed by the users of this manual. These forms are not available through normal supply channels. They may be reproduced locally on 8½-x-1l-inch paper.

Form Number/Title	Usage Discussed on Page
DA Form 1971 -R, Radiological Data Sheet-Monitoring or Point Technique	5-4—5-8
DA Form 1971-1-R, Radiological Data Sheet-Route or Course Leg Technique	5-13—5-16
DA Form 1971-3-R, Effective Downwind Message Worksheet	3-16—3-18
DA Form 1971-4-R, Fallout Prediction Worksheet—Surface Burst	4-0—4-2
DA Form 1971-5-R, Unit Radiation Dose Record	A-1—A-6

RADIOLOGICAL DATA SHEET- MONITORING OR POINT TECHNIQUE For use of this form, see FM 3-3-1; the proponent agency is TRADOC	DATE	PAGE NO.	NO. OF PAGES

SURVEY PARTY OR MONITORING UNIT DESIGNATION	MONITOR (Print name)

MAP USED	TYPE OF VEHICLE OR OTHER SHIELDING	INSTRUMENT TYPE

READING NO.	LOCATION	TIME	DOSE RATE (cGyph)	DO NOT USE*	READING NO.	LOCATION	TIME	DOSE RATE (cGyph)	DO NOT USE*
1					16				
2					17				
3					18				
4					19				
5					20				
6					21				
7					22				
8					23				
9					24				
10					25				
11					26				
12					27				
13					28				
14					29				
15					30				

REMARKS

* DO NOT USE. For control party only

CORRELATION FACTOR DATA

LOCATION	READING NO.	DOSE RATE (cGyph)		CF*	LOCATION	READING NO.	DOSE RATE (cGyph)		CF*
		INSIDE	OUTSIDE				INSIDE	OUTSIDE	

RADIOLOGICAL DATA SHEET- ROUTE OR COURSE LEG TECHNIQUE (Ground and Aerial Survey) For use of this form, see FM 3-3-1; the proponent agency is TRADOC	DATE	PAGE NO.	NO. OF PAGES

SURVEY PARTY DESIGNATION	MONITOR (Print name)

MAP USED	AIRCRAFT OR VEHICLE TYPE	INSTRUMENT TYPE

ROUTE OR COURSE LEG DESIGNATION			
TIME AT START OF LEG OR ROUTE			
TIME ROUTE COMPLETED (Ground) OR SURVEY HEIGHT (Air)*			
DISTANCE OR TIME INTERVAL USED			

REMARKS

READING NO.	DOSE RATE (cGyph)	DO NOT USE**	READING NO.	DOSE RATE (cGyph)	DO NOT USE**	READING NO.	DOSE RATE (cGyph)	DO NOT USE**
1			1			1		
2			2			2		
3			3			3		
4			4			4		
5			5			5		
6			6			6		
7			7			7		
8			8			8		
9			9			9		
10			10			10		
11			11			11		
12			12			12		
13			13			13		
14			14			14		
15			15			15		
16			16			16		
17			17			17		
18			18			18		
19			19			19		
20			20			20		

* Times of start and stop are reported for each route or portion of route completed at one time by ground survey. If a route is done in parts, use a separate column for each part.

** DO NOT USE. For control party only.

AIR-GROUND OR VEHICLE CORRELATION FACTOR DATA

LOCATION	HEIGHT (feet) AIR ONLY	DOSE RATE (cGyph)		CF**
		INSIDE AIR	OUTSIDE GROUND	

EFFECTIVE DOWNWIND MESSAGE WORKSHEET

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

TIME OF WIND MEASUREMENT (DATE-TIME GROUP) D D t t t t _____

DATA AND CALCULATIONS

MESSAGE LINE	YIELD (KT)	CLOUD-TOP HEIGHT (METERS)	CLOUD-BOTTOM HEIGHT (METERS)	2/3 STEM HEIGHT (METERS)	(1) DISTANCE OF GZ/CB RADIAL LINE (KM)	EFFECTIVE WIND SPEED-sss (KMPH) (1) X 1 = sss TIME OF FALL ROUND OFF TO NEAREST KILOMETER PER HOUR	(2) AZIMUTH OF GZ/CT RADIAL LINE (DEGREES)	(3) AZIMUTH OF GZ/2/3 STEM RADIAL LINE (DEGREES)	EFFECTIVE DOWNWIND DIRECTION-ddd (DEGREES) SUM OF (2) + (3) = (2) AND (3) / 2 = ddd[1]	WARNING AREA ANGLE
A	2	4,900	2,600	1,700	____	____ X 1.136 = ____	____	____	____ = ____ / 2 = ____	____
B	5	7,100	4,400	2,800	____	____ X 0.758 = ____	____	____	____ = ____ / 2 = ____	____
C	30	11,600	7,700	5,100	____	____ X 0.455 = ____	____	____	____ = ____ / 2 = ____	____
D	100	14,400	9,300	6,200	____	____ X 0.385 = ____	____	____	____ = ____ / 2 = ____	____
E	300	16,700	11,000	7,400	____	____ X 0.333 = ____	____	____	____ = ____ / 2 = ____	____
F	1,000	21,600	13,500	9,000	____	____ X 0.286 = ____	____	____	____ = ____ / 2 = ____	____
G	3,000	26,250	15,800	10,500	____	____ X 0.250 = ____	____	____	____ = ____ / 2 = ____	____

EFFECTIVE DOWNWIND MESSAGE

ZULU	DDtttt	___	___	___	___	___	___			
ALFA	dddsss	___	___	___	___	___	___	___	___	___
BRAVO	dddsss	___	___	___	___	___	___	___	___	___
CHARLIE	dddsss	___	___	___	___	___	___	___	___	___
DELTA	dddsss	___	___	___	___	___	___	___	___	___
ECHO	dddsss	___	___	___	___	___	___	___	___	___
FOXTROT	dddsss	___	___	___	___	___	___	___	___	___
GOLF	dddsss	___	___	___	___	___	___	___	___	___

[1]When the azimuth of the ground zero/cloud-top radial line (2) or the azimuth of the ground zero/2/3 stem line (3) falls in the first quadrant (0° to 90°) and the other falls in the forth quadrant (270° to 360°), result of $\frac{(2)+(3)}{(2)}$ will be the back azimuth of the effective downwind direction. In this case, determine ddd by the following method: If result is greater than 180°, subtract 180°; if result is less than 180°, add 180°. Enter in the effective downwind message.

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)		

UNIT RADIATION DOSE RECORD

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

Unit	As Of:

Element	Previous Exposure	New Exposure						Total Exposure	RES

Company or Battalion RES	Number of Platoons in Company or Companies in Battalion					
	2	3	4	5	6	7
	Sum of RES Numbers					
RES-0	0	0-1	0-1	0-2	0-2	0-3
RES-1	1-2	2-4	2-5	3-7	3-8	4-10
RES-2	3-4	5-7	6-9	8-12	9-14	11-17
RES-3	5-6	8-9	10-12	13-15	15-18	18-21

RES-0 = 0 cGy

RES-1 = More than 0 cGy, but no more than 70 cGy

RES-2 = More than 70 cGy, but no more than 150 cGy

RES-3 = More than 150 cGy