

## APPENDIX D

### USAF MINIMUM SAFE DISTANCES FOR SURFACE TARGETS

*This appendix provides a reference chart depicting the minimum safe distances for various US Air Force used to engage surface targets.*

#### USAF MINIMUM SAFE DISTANCES FOR SURFACE TARGETS (COMBAT)

WEAPON	PROTECTED TROOPS (METERS) <sup>1</sup>	UNPROTECTED TROOPS (METERS) <sup>2</sup>
Bomb: 1,000 pounds and larger	240	1,000
Bomb: 750 pounds low drag	195	750
Bomb: 750 pounds high drag	150	750
Bomb: 500 pounds low drag	220	500
Bomb: 500 pounds high drag	145	500
Bomb: less than 500 pounds	145	500
CBU: clamshell only	1,000	1,000
CBU: aft and downward, dispenser only	105	105
Rockets: all pods	220	220
Cannon and guns:		
20-mm, .50 caliber, 7.62-mm	25	25
30-mm	50	50
Nepalm:		
parallel to friendly forces	75	75
overhead of friendly forces	115	115
<sup>1</sup> Protection refers to bunkers, trenches, fighting positions, or armed vehicles. <sup>2</sup> Entries are based on figures extracted from USAF ammunition tables and consider delivery system errors. Also they are based on USAF SOP and may be altered by the FAC concerned. <b>NOTE.</b> Consideration must be given to type ordnance used, delivery system attack procedures used, and local weather conditions. Any of these can greatly alter the MSD for a given target.		
<b>LEGEND:</b> CBU = cluster bomb unit FAC = forward air controller MSD = minimum safe distance		