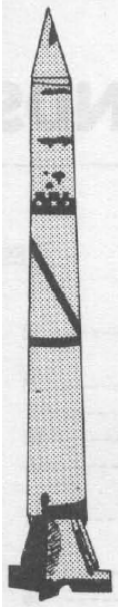


WEAPONS of the ARTILLERY---8

Redstone Missile



MISSILE CHARACTERISTICS

Length--fully assembled 21.1 meters (69' 4")

Diameter--1.8 meters (70")

Loaded weight--28,000 KG (61,700 pounds)

Empty weight--7,420 KG (16,300 pounds)

Range (maximum)--320 KM (200 statute miles)

Propellants:

Oxidizer--liquid oxygen, 11,370 KG (25,000 pounds)

Fuel--75 percent alcohol plus 25 percent water, 8,650 KG (19,000 pounds)

Steam source--hydrogen peroxide, 359 KG (854 pounds)

Thrust--35,200 KG (78,000 pounds) for 96 to 121 seconds

Guidance--inertial

Warhead--nuclear, 3,590 KG (7,900 pounds) total nose section weight

Mobility--100 percent, and air transportable

Vulnerability--considered invulnerable to any presently known electronic countermeasures

Time required to emplace weapon and fire--approximately 6½ hours

Fire control equipment-- T2 Theodolite and missile porro prism

TRAINING REFERENCES

FM 6- (), Warhead Section, XM18, XM30, XM31, and XM33, Redstone

FM 6-25, FA Missile Group, Redstone

FM 6-35, FA Missile, Redstone

FM 6-35A, FA Missile, Redstone, Missile Technical Firing Operation

Tables of Organization:

6-630T, FA Msl Gp (Red) (21 May 58)

6-631T, Hq & Hq Btry, FA Msl Gp (Red) (21 May 58)

6-634T, FA Msl Btry (Red) (21 May 58)

5-464T, Engr Co (Red)(3 Mar 58)

9-217T, Ord Co (Red)(3 Mar 58)

NOTE: Revised TOE's have been submitted to USCONARC for approval.

Army Training Test:

ATT 6-630 FA Msl Gp, 28 Oct 58