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SANDIA/LOS ALAMOS EPW PROGRAM

HISTORICAL PERSPECTIVE OF ACCOMPLISHMENTS

1952 — EARLY EPW STOCKPILE

- Mk 8 MOD 0
- Mk 11

1957

1965 — EPW DEVELOPMENTAL PROGRAMS

- RUMPLER
  - GUN LAUNCHED ADM EPW
- BAYONET AND LEK
  - LOW ALTITUDE AIRCRAFT DELIVERED EPW: LOW YIELD
- SOPWITH
  - ROCK PENETRATING EPW

1972

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SANDIA/LOS ALAMOS EPW PROGRAM

HISTORICAL PERSPECTIVE OF ACCOMPLISHMENTS

W86 TACTICAL EPW FOR PERSHING II

APRIL, 1979 — PHASE 3 START

SEPT., 1980 — PHASE 3 CANCELLED

W86 PHASE DOWN PROGRAM & TECHNOLOGY

JAN., 1982 — W86 DEMONSTRATION COMPLETED

DESIGN ON THE SHELF

RV COMPATIBLE EPW DESIGN DEVELOPMENT

SEPT., 1982 — LOW L/D DESIGN TESTED

SEPT., 1983 — LOW L/D DESIGNS SUBMITTED

[redacted]

APRIL, 1985 — LOW L/D HARD ROCK DESIGN TESTED

JAN., 1986 — LOW L/D DESIGN TESTED IN

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Sandia National Laboratories

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C85-6912

DELIVERY SYSTEM CONSIDERATIONS

- SMALL ANGLE OF ATTACK
- CONTROL ANGLE OF OBLIQUITY; ESPECIALLY FOR CONCRETE/ROCK TARGETS
- IMPACT VELOCITY MUST BE TAILORED FOR SURVIVABILITY; DEPENDENT ON TARGET
- FOR CONCRETE/ROCK TARGETS THE ISSUE IS SURVIVABILITY

ACCURACY MAY BE VERY IMPORTANT

- TO UTILIZE MULTIPLE, SIMULTANEOUS EPW BURSTS TO DRIVE PLANAR-LIKE SHOCKS DEEP INTO THE GROUND

- TO ALLOW PLACEMENT OF EPW'S INTO URBAN TARGETS

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HARD TARGET KILL – PROGRAM STATUS

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