



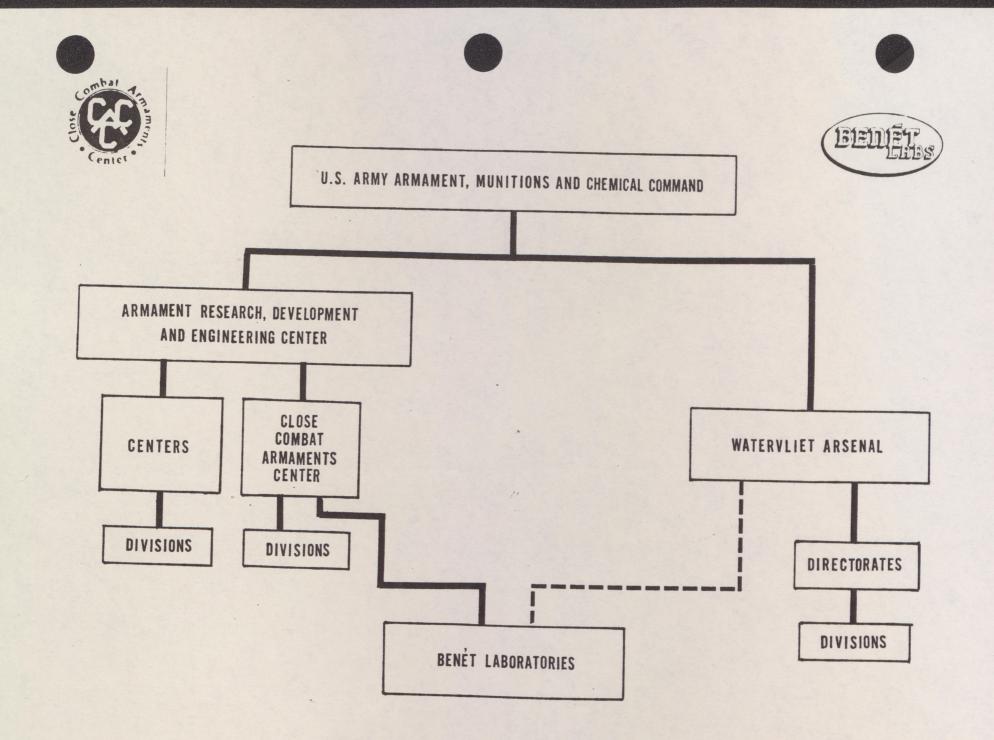




#### **A DIVISION OF**

#### **CLOSE COMBAT ARMAMENTS CENTER**

### US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER







MISSION & FUNCTIONS



	MISSION ITEMS	APPLIED RESEARCH	CONCEPTUAL DEVELOPMENT	PRODUCIBILITY ENGINEERING	ENGINEERING SUPPORT TO PRODUCTION	ENGINEERING SUPPORT TO FIELD
TA	NK CANNON/MOUNTS/RECOIL MECHS	UNIQUE	UNIQUE	UNIQUE	YES	YES
TA	NK TURRET COMPONENTS		YES	YES	YES	YES
AR	TILLERY CANNON	UNIQUE	UNIQUE	UNIQUE	YES	YES
MO	RTARS	UNIQUE .	UNIQUE	UNIQUE	YES.	YES
RE	COILLESS RIFLES	UNIQUE	UNIQUE	UNIQUE	YES	YES
TA	NK AUTOLOADERS	UNIQUE	UNIQUE	TBD	TBD	TBD

- "UNIQUE" DENOTES UNIQUE FUNCTION WITHIN ARMY
- "YES" DENOTES SHARED FUNCTION
- "TBD" DENOTES TO BE DETERMINED

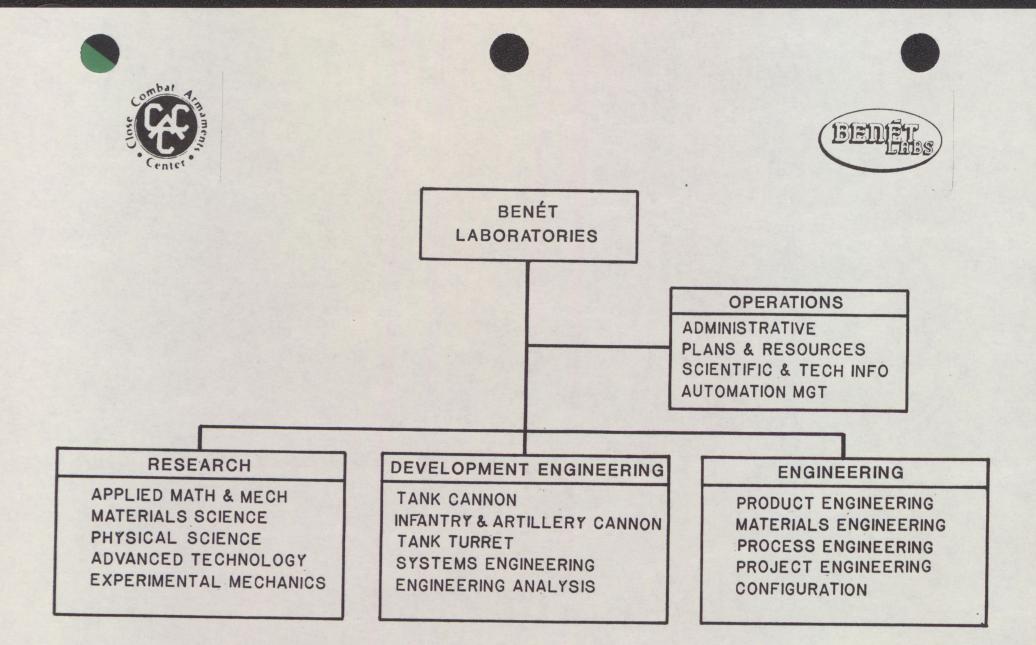






#### UNIQUE TALENTS/CAPABILITIES

- ° ONLY LARGE CALIBER CANNON GOVERNMENT EXPERTISE IN THE USA.
- ° GUARANTEED PRODUCIBILITY OF DESIGN BY COLOCATION AND DAILY INTERACTION WITH THE ONLY CANNON MANUFACTURER.
- ° ONLY TANK AUTOLOADER GOVERNMENT EXPERTISE IN THE USA.
- ° ONLY FULL SCALE FIRING SIMULATION CAPABILITY IN THE FREE WORLD.
- UNIQUE ABILITY TO RAPIDLY DIAGNOSE AND CORRECT FIELD PROBLEMS BY JOINT PARTICIPATION OF RESEARCH, DESIGN AND ENGINEERING TALENTS.
- SUCCESSFUL TRACK RECORD OF APPLICATION OF RESEARCH TECHNOLOGY TO MEET CRITICAL ARMY NEEDS.





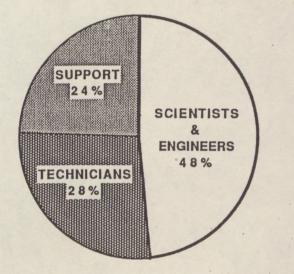


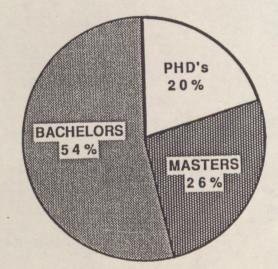


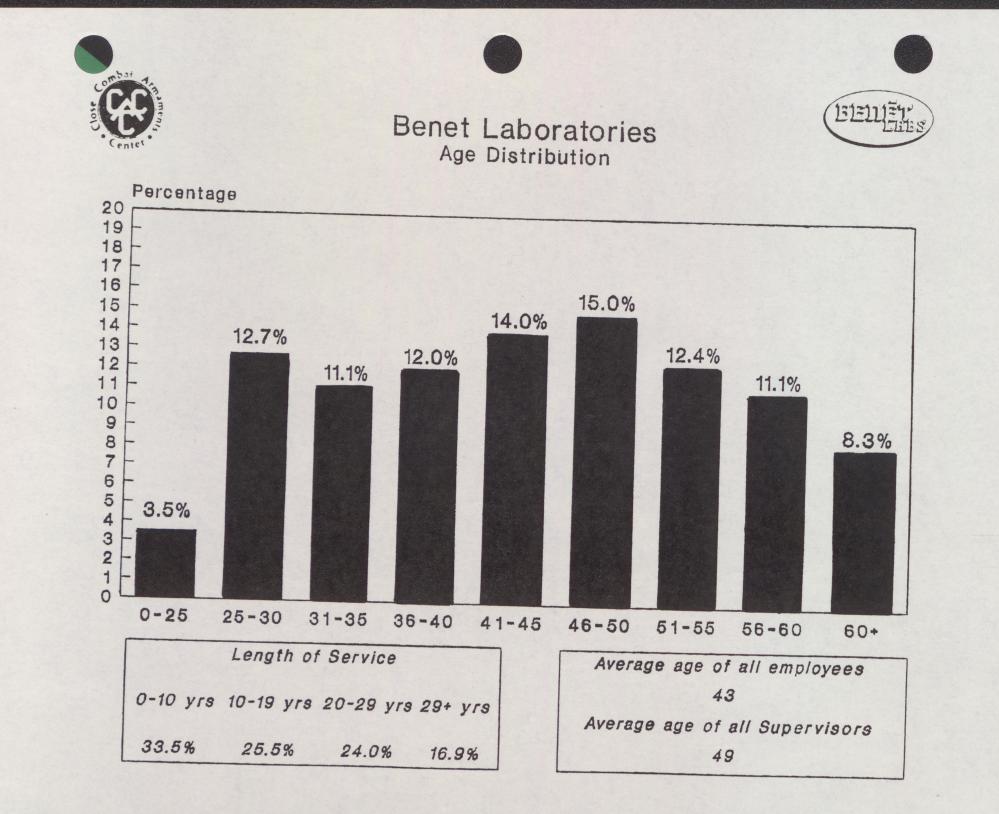
TOTAL STAFFING = 325

SKILL MIX









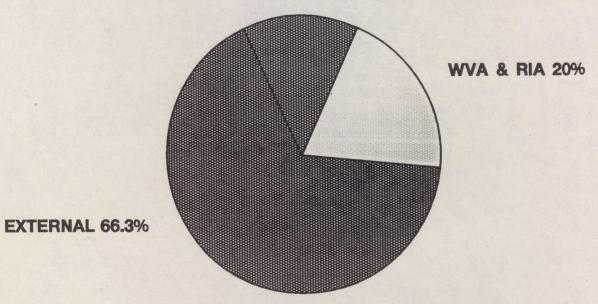






### **BENET LABORATORIES PROGRAM**

DIRECT MISSION 13.7%



## FUTURE TANK ARMAMENTS

. 4 '

DR. J. ZWEIG

# FUTURE TANK ARMAMENTS

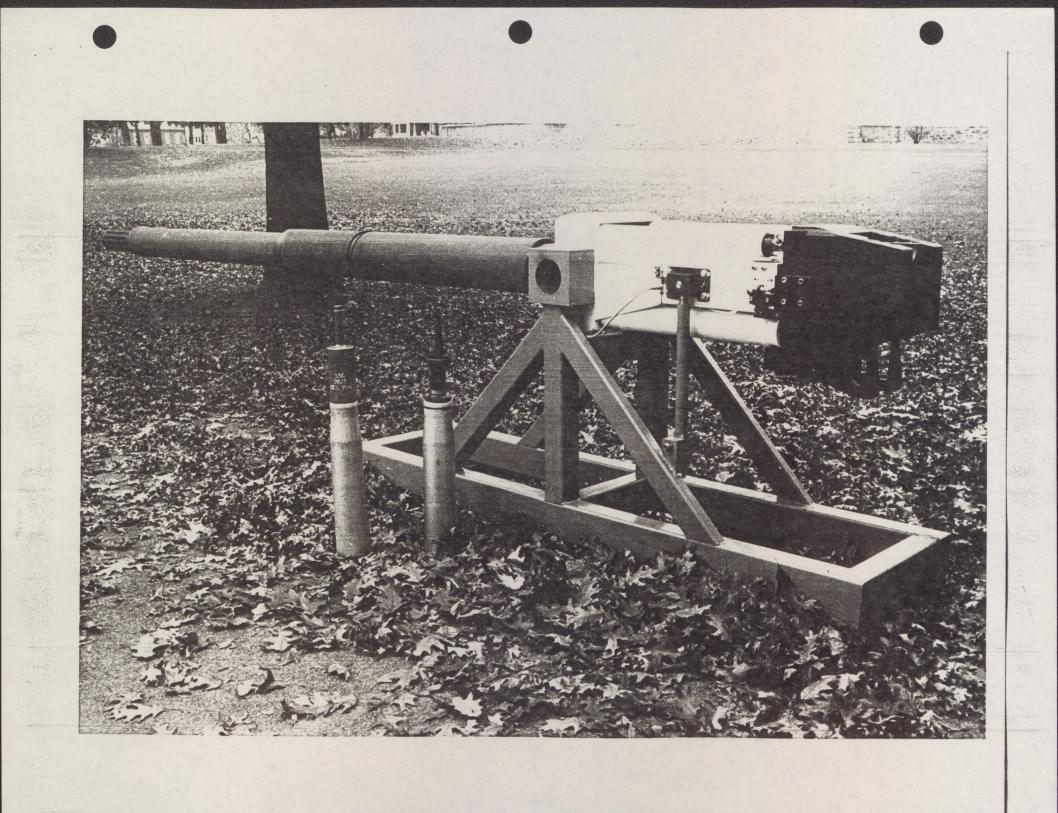
• EX35 (BACKGROUND)

• GUN - ATACS, XM291, FTMA

AUTOLOADER

# EX35 FOR LIGHT VEHICLE APPLICATION

- OVER 40 PERCENT LIGHTER THAN M68
- SMALLER SIZE
- 21% LESS IMPULSE
- LESS THAN ONE HALF THE PEAK RECOIL FORCE OF THE M68



## ATACS GUN

GOALS

PROVIDE TANK WITH MAXIMUM POWER ON TARGET WITHIN ACCEPTABLE BURDENS

PROVIDE DECISION MAKERS MAXIMUM LATITUDE

OBJECTIVES

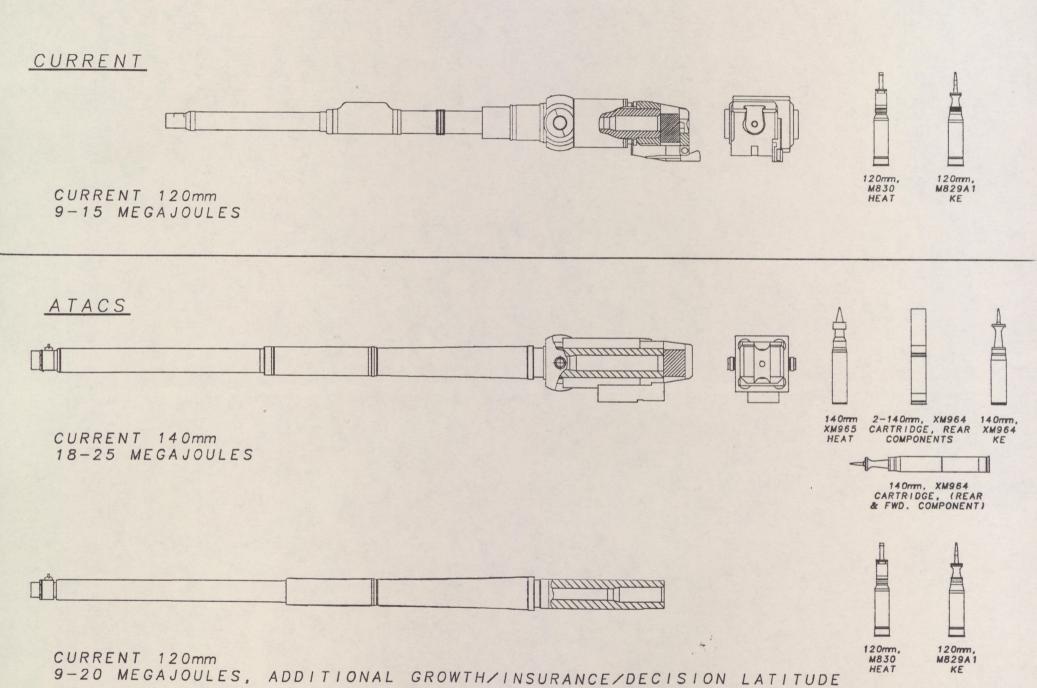
DETERMINE GUN PARAMETERS WHICH MAXIMIZES KE ON TARGET FOR 4.8 TO 10.8 KG PENETRATORS

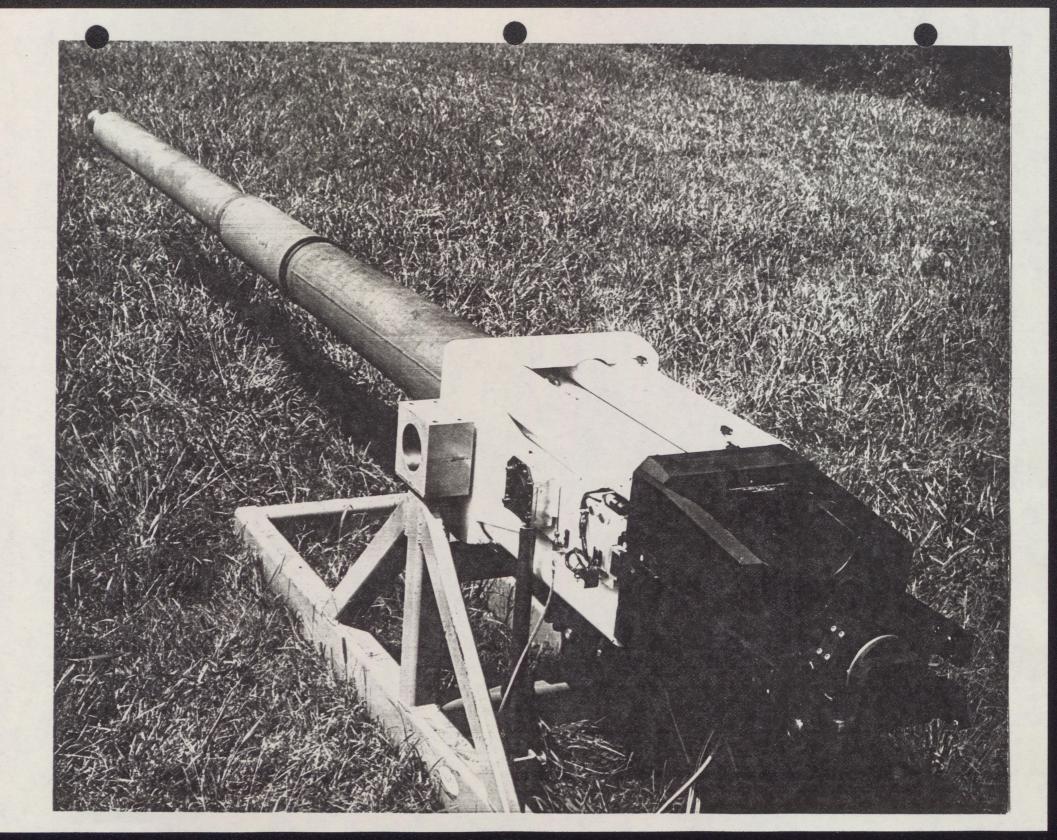
OBTAIN QUADRILATERAL AGREEMENT ASSURING FUTURE INTEROPERABILITY

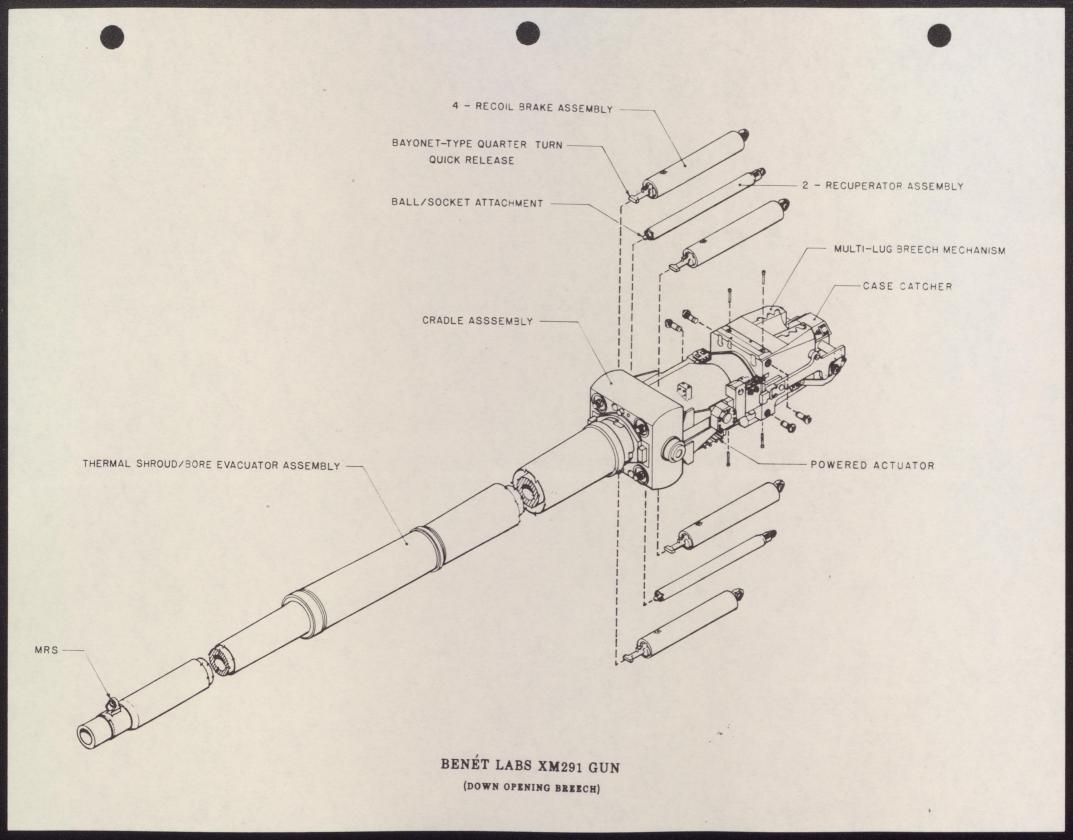
DESIGN FUTURE GUN COMPATABLE WITH NON-CONVENTIONAL PROPULSION

ASSURE BACKWARD INTEGRATION

BACKGROUND - WHY







## XM291 GUN - GENERAL FEATURES

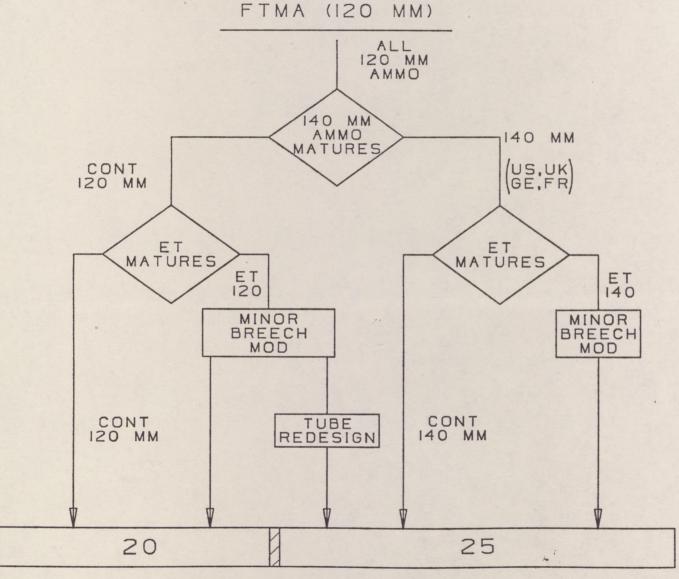
APPROXIMATELY SAME SIZE & WEIGHT
 AS 120mm GUN USED IN M1A1 TANK

- DOUBLES CAPACITY OF 120mm GUN
- FIRES 140mm OR 120mm AMMUNITION
   WITH SIMPLE TUBE CHANGE
- DESIGNED TO INSTALL ASSEMBLED GUN INTO TURRET THROUGH FRONT ROTOR OPENING

FUTURE TANK MAIN ARMAMENT (FTMA) A FLEXIBLE DESIGN FOR FUTURE APPLICATIONS

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MUZZLE ENERGY, MJ

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## AUTOLOADER PROGRAM GOALS AND OBJECTIVES

GOALS

- DEVELOP SMART BUYERS
- DEVELOP SMART SELLERS

OBJECTIVES

- EARLY PROBLEM INDENTIFICATION
- TARGET TECHNOLOGIES
- DEVELOP / DEMONSTRATE SOLUTIONS
- DATA / SYSTEM DUMP TO INDUSTRY

#### **GENESIS**

#### CONSUMER REQUIREMENTS

- RATE OF FIRE
- RATE SUSTAINMENT
- UNLOAD / DOWNLOAD
- ETC,

### LITERATURE / MARKET SEARCH

- US, UK, FR, GE, JN
- USSR

## CONCEPT DEVELOPMENT

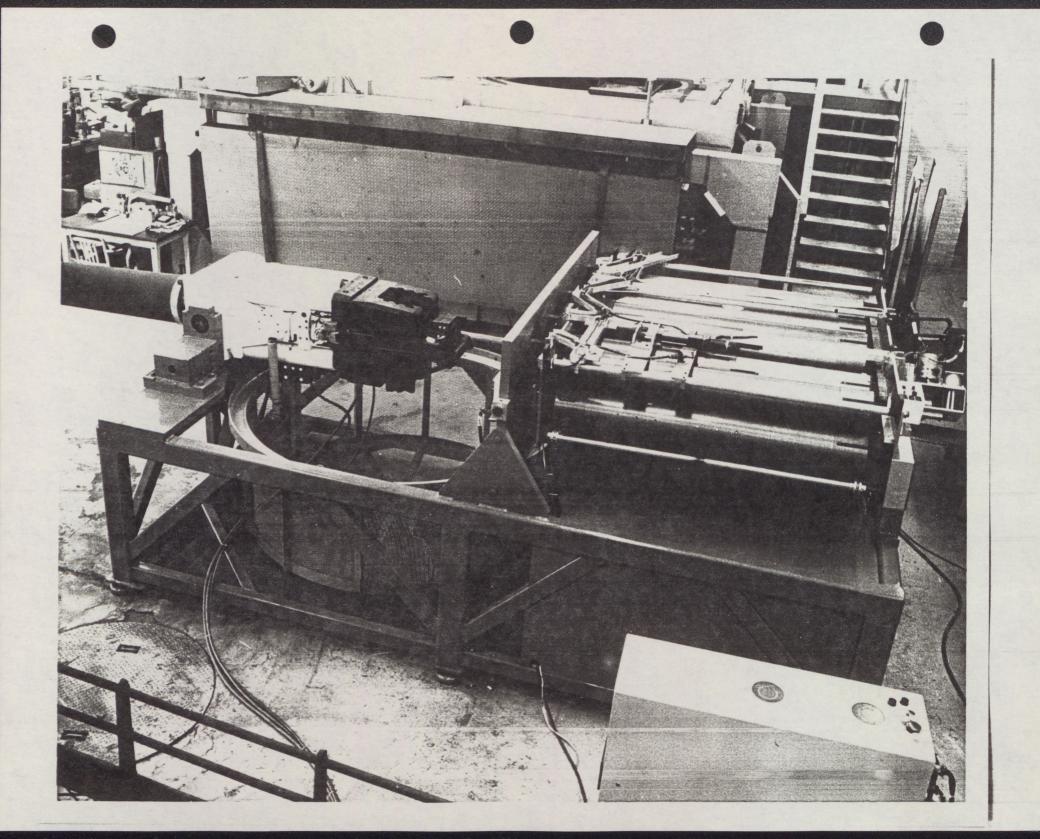
• TACOM, BRL, HEL, ARDEC

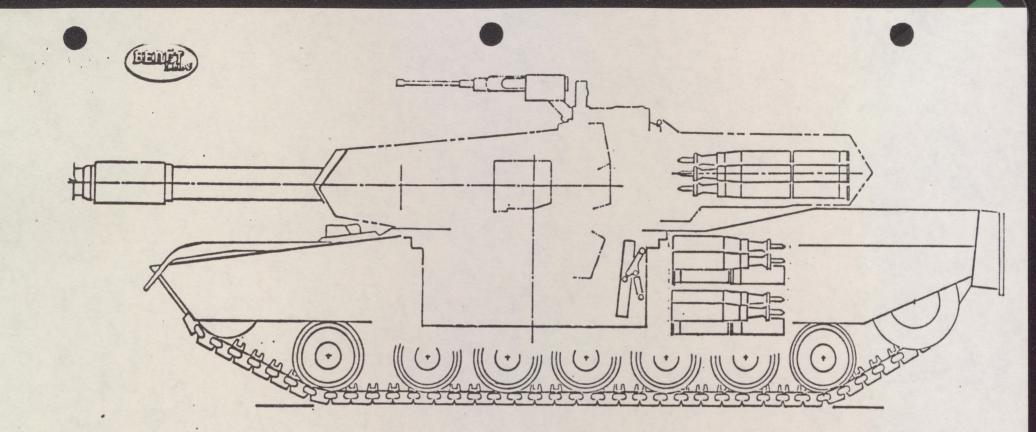
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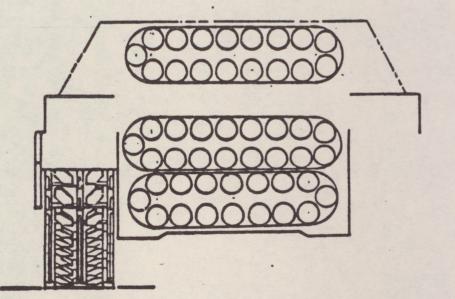
- FT. KNOX, PM's
- 8 CONCEPTS

#### EXECUTION

- SYSTEM
- SUBSYSTEM
- SYSTEMS

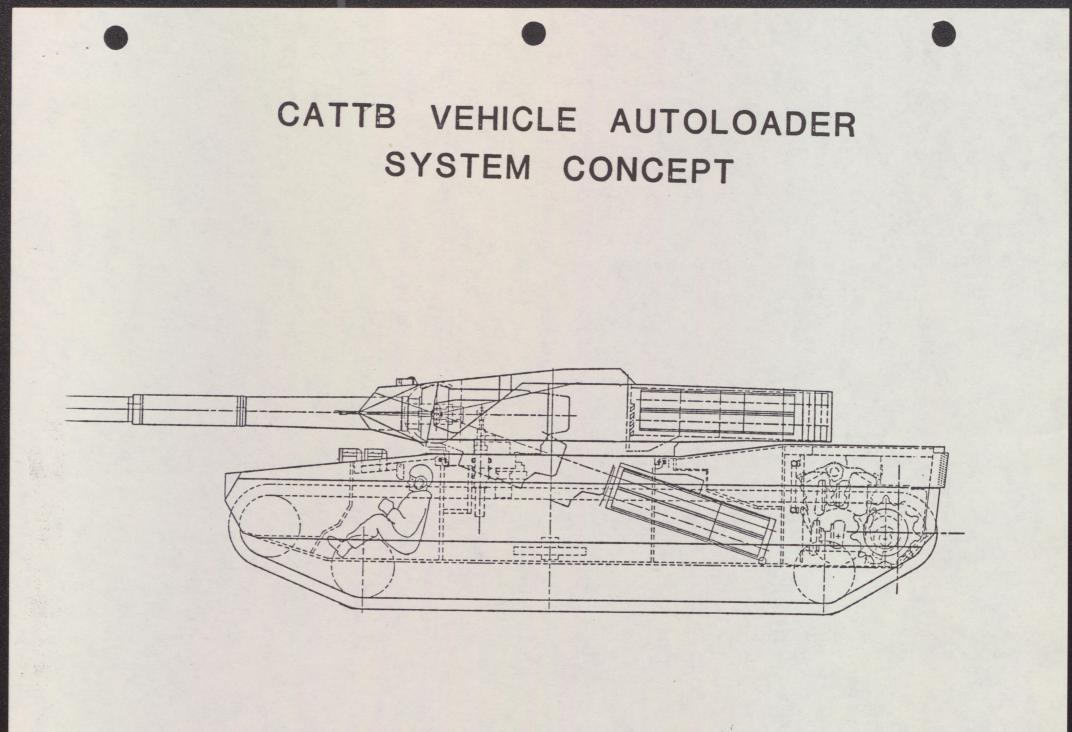






## DESIGN FEATURES

- 39 STOWED ROUNDS -17 READY RDS. IN BUSTLE
- . IO / 12 ROUNDS PER MINUTE
- · AUTOMATED VEHICLE UPLOAD
- AUTOMATED READY RD. RESUPPLY



#### SENECA ARMY DEPOT Romulus, New York 14541-5001

#### ITINERARY FOR

#### GENERAL WILLIAM G.T. TUTTLE COMMANDING GENERAL OF AMC

07 October 1991

TT ME	λοπτιτην		ACTION
TIME	ACTIVITY		ACTION
0830	Arrival - Seneca Army Airfield	(NOTE 1)	COL Cross
0830-0855	Riding Tour of Lake Housing and Travel Camp (MISSION 7-FUNCTION 5)		COL Cross Mr. Struzik
0900-0915	View & Receive Briefing on Emergency Opns Center (EOC) Bldg. 7 (MISSION 1-FUNCTION 8)	01	Mr. Smith
0915-0930	Reserve Component Training Briefing (MISSION 6-FUNCTION 9)		MAJ Baker
0935-1005	Special Weapons Area	(NOTE 2)	LTC Beck/ Mr. Orndorff
	<ul> <li>Bldg. 813/814-Care &amp; Preservation (Remodeled facility, General Tut cut ribbon to open facility) (MISSION 1-FUNCTION 5)</li> </ul>		
	<ul> <li>Ride-Through Balance of Area (MISSION 1-FUNCTION 3)</li> </ul>		
1005-1015	Travel to South End of Depot		COL Cross
1015-1025	Tour of Warehouse #343 (Hazardous Material Conforming Stor (MISSION 1-FUNCTION 4) (MISSION 6-FUNCTION 6)	age)	Mr. Wells
1025-1030	Travel to Headquarters, Bldg. 101		COL Cross
1030-1135	Topical Briefings, Conference Room	(NOTE 3)	Staff
	<ul> <li>Conventional Ammunition (MISSION 1-FUNCTIONS 1, 3, 10)</li> <li>Desert Storm</li> <li>Capacity</li> <li>Workload</li> </ul>	1	Mr. Lankford

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Topical Briefings (cont'd)

<ul> <li>Financial Management (MISSION 7-FUNCTION 6)</li> </ul>	Mr. Windle
. Environmental Concerns	Mr. Kittell
(MISSION 7-FUNCTION 4) . TQM	Mr. Frank
(MISSION 7-FUCTION 3) • Safety Program (MISSION 7-FUNCTION 6)	Mr. Stincic
• EEO Program (MISSION 7-FUNCTION 5)	Mrs. Buther
. Civilian Personnel Status/Training Issues (MISSION 7-FUNCTION 7)	Mr. Mack
• FECA/COP (MISSION 7-FUNCTION 6)	Mr. Mack
Travel to Seneca Army Airfield via Gate 5 and Gate 16	COL Cross

1135-1145

Wheels Up

#### NOTES:

1145

- NOTE 1: COL Cross, Mr. Struzik, and CSM Heleg-Greza will meet visitors. Appropriate transportation and drivers will be available. CSM will have honor guard in place.
- NOTE 2: MAJ Noble will vouch CG and other visitors through Post 7. Van and driver will be prepositioned inside "Q" Area to transport party.
- NOTE 3: Attendees at briefings will be COL Cross, Mr. Struzik, Briefers, and DPA, DSup, DSW, and CSM.

OTHER SPECIFIC INFORMATION: Accompanying General Tuttle will be:

COL Philip Schrock, Execut e Officer MAJ Ray Mason, Aide-de-Cam CPT Jimmie Norris, Assistant SGS

SPECIAL INSTRUCTIONS: Dry Run of all briefings for visit will be at 1330 on 02 Oct in Conf. Rm., Bldg. 101. Briefing text and visuals should be ready at least in draft by then. Briefings will not exceed 5 minutes "talk time."

DISTRIBUTION: CDR/CEA/CSM Trp CDR (Mr. Evan Smith) DMPCA DAO DSW & Deputy DRM 2 DEH CF: Mr. Frank DIM. Badge Ofc PAO DLES DIA Con Sec Div DPA Vis Info DCP Vis Info DSup DLog C, General Supply CI Div Safety Manager EO Officer

#### SDSSE-PED (310-2c)

27 Sep 91

SUBJECT: Community Counseling Center (CCC)

PURPOSE: Implementation of the one-stop counseling center

#### FACTS:

- Seneca Army Depot's Community Counseling Center incorporated the Drug and Alcohol, Family Advocacy, Health Promotion and Community Mental Health Programs to allow for a one-stop prevention, education and counseling service to better meet the needs of our soldiers, family members and civilian employees.
- Health Services Command at Fort Drum credentialed the CCC staff to perform clinical treatment services. AMC approved the consolidation of the CCC concept subsequent to a one year successful trial period.
- Since the consolidation of the CCC it has been commended in the following areas:
  - 2nd place in DoD wide competition for Military Services Community Drug Awareness Award.
  - . Commended by Mr. James Gray, AMC Family Advocacy Program Manager for a quality Family Advocacy Program.
  - . Commended by the NWTI team for developing a creative program to more adequately meet soldier needs.
  - . Commended by Colonel Mindrum, DESCOM Surgeon, for developing a quality innovative program to better meet community needs.
  - During the GAO inspection held 13 17 May the inspection team commended the CCC for development of a "smarter" way to do business.
  - . All safety, surety and clinical inspections have resulted in outstanding reviews and comments.

RELEASED BY:	ANTHONY J. STRUZIK A GM 15	CTION OFFICER:	BROOKE L. BREWER, PhD GS 12
	Civilian Executive		Chief, Community
	Assistant		Counseling Center
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