

026 1055 AW

DEPARTMENT OF THE ARMY
Executive Communications and Control

25 August 2003

W/T

3 VCSA 16 SEP 2003
2 ~~DAS~~ *W/T* **VCSA HAS SEEN**
1 ~~Dir, ECC~~ *3/4* *KE*
4 LTC E. Turner, 695-7922 *WT*

SUBJECT: Abrams Recapitalization Program
Baseline (RPB) Approval

1. **TYPE ACTION:** **ACTION AGENCY:**
SIGNATURE ASA(ALT)

2. **DISCUSSION:** ASA(ALT) MILDEP forwards (Next Under) a memorandum already signed by the ASA(ALT) for VCSA's signature (Tab E) approving the Abrams RPB (Tab A).

- The RPB is submitted in accordance with guidance provided in the November 2001 memorandum (Tab B) from the ASA(ALT) MILDEP which tasked Recapitalization PEO's to prepare and submit the RPB after performing required coordination with the appropriate Major Subordinate Command and have the CEAC validate the methodology used for the recapitalization cost estimate (Tab C).

- Due to cuts in the program from when it was first approved by the AAE/VCSA in November 2001, the quantities have decreased from 966 M1A2SEPs to 588 M1A2SEPs and from 790 M1A1AIMs to 695 M1A1AIMs (Tab D).

- The PEO Ground Combat Systems conducted a decision review of the Abrams Recapitalization Program and approved its entry into full rate production. The PEO and PM will execute all selected upgrades and rebuilds for the Abrams system IAW the funding and schedule baselines documented in the RPB.

3. **COORDINATION:** OGC, PEO GCS, PM GCS, DASA-CE, G8, & G-4.

4. **RECOMMENDATION:** VCSA sign memo at Tab E.

SIGNED: _____

SEE NOTE: _____ # 30805153

Completed/abroad 19 Sep 03 (W/T)



DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY
ACQUISITION LOGISTICS AND TECHNOLOGY
103 ARMY PENTAGON
WASHINGTON DC 20310-0103
18 AUG 2003



SAAL-SSI

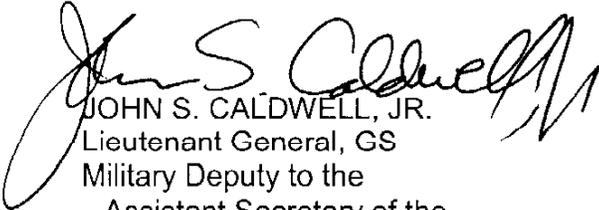
MEMORANDUM THRU ARMY ACQUISITION EXECUTIVE

FOR VICE CHIEF OF STAFF, ARMY

SUBJECT: Abrams Recapitalization Program Baseline (RPB) Approval--ACTION
MEMORANDUM

The enclosed subject memorandum is provided for both the Army Acquisition Executive (AAE) and Vice Chief of Staff, Army (VCSA) signatures. The Abrams RPB obtained the required documentation and coordination from the Army Staff.

The Fiscal Year 2004 President's Budget reflects the new Abrams RPB procurement strategy culminating in the adjustment of the Abrams Recapitalization program from 966 M1A2SEPs to 588 M1A2SEPs and from 790 M1A1AIMs to 695 M1A1AIMs.


JOHN S. CALDWELL, JR.
Lieutenant General, GS
Military Deputy to the
Assistant Secretary of the
Army (Acquisition, Logistics
and Technology)

Enclosure

RACAPITALIZATION PROGRAM BASELINE
FOR THE
ABRAMS TANK PROGRAM

PREPARED BY:

COMBAT SYSTEMS PROJECT OFFICE

17 JUNE 2003

Abrams Recapitalization Program Baseline

1. Program Description: On 17 August 2001, the VCSA approved a Full Recapitalization Plan for the Abrams M1A1 and M1A2 SEP Programs. The Full Recapitalization Program will be accomplished through the upgrade of M1's and the retrofit of M1A2's to a SEP configuration, and the rebuild of selected M1A1's. The program will

- Continue to upgrade 547 M1 tanks and retrofit 419 M1A2 tanks to a M1A2 SEP configuration for a total of 966 M1A2 SEPs (Counter Attack Corps.). The final M1A2 SEP configuration will include the LV100 engine (formerly known as the Abrams-Crusader Common Engine (ACCE)).
- Rebuild 790 M1A1s (Containment Force) to include the incorporation of Improved Frontal Armor.
- Have two decision points added by the VCSA:
 - A digitization decision for the M1A1s in FY03.
 - Incorporation of the ACCE engine into the M1A1s in FY06.

2. Baseline Funding: The recapitalization funding profile approved by the VCSA on 17 August 2001 represents the costs associated with executing the recap program through handoff to the user (Table 1). The VCSA approved program was represented in the FY03 Budget Estimate Submit (BES) dated November 2001. The recapitalization team placed the major Abrams funding for the POM years into the RU01 (M1A2SEP) and RR01 (M1A1AIM) MDEPs to ensure that resources required for the execution of the program are identified and protected. Actual future funding may vary due to routine budgetary actions, such as zero sum and PBDs.

Abrams Requirements								
	FY02	FY03	FY04	FY05	FY06	FY07	FY03-07	EPP
RDA	1040.9	786.1	920.7	915.0	1004.5	988.7	5980.0	TBD
RDTE	182.5	54.6	33.9	26.4	13.2	13.5	5655.9	TBD
PA	858.4	731.5	880.8	888.6	991.3	975.2	10510.6	TBD
Weapon Systems	817.4	703.9	856.0	887.2	975.3	959.0	5248.8	TBD
Training Devices	17.4	17.7	18.8	9.2	3.5	3.5	153.0	TBD
Initial Spares	23.6	10.0	12.0	12.2	12.5	12.7	83.0	TBD
STS 1/								
OMA	172.1	175.2	172.4	227.3	239.9	249.4	2055.3	TBD
Recapitalization	128.9	132.8	135.0	138.0	140.5	143.8	1063.6	TBD
SSTS	14.7	17.3	19.6	62.3	66.5	67.2	244.6	TBD
COSIS								
SDO	0.2	0.1	0.1	0.1	0.1	0.1	85.6	TBD
SDT	12.7	10.3	6.2	12.8	18.7	24.2	172.0	TBD
PPSS	15.6	14.7	14.5	14.1	14.1	14.1	87.1	TBD
MWO								
Initial Spares								
Support Equipment (TMDE)								
Training Devices								
CLS								
Other								
Training								
Manning								
Munitions								
Installation Support Costs								
Total	1213.0	961.3	1093.1	1142.3	1244.4	1238.1	6892.2	TBD
System Name	FY02 Program Acquisition Unit Cost							
M1A1 AIM	N/A							
M1A2 SEP	N/A							

1/ Included in Weapon System Cost

Table 1

3. Revised Baseline Funding (ANNEX A): The current focus of the Abrams Recapitalization program has changed significantly since initial Army approval on August 17, 2001, which at that time, accelerated force modernization for the entire 3½ division strong CATK Corps (966 M1A2 SEPs). The Army terminated the Abrams M1A2 SEP Retrofit program in the Future Years Defense Program (FY03 and beyond), which reduced the investment in Abrams modernization and recapitalization, as part of the Legacy Force, and subsequently reprioritized available Army resources to fund Transformation and other higher priority programs. As a result, Abrams modernization is limited to M1A2 SEPs for 1CD and 4ID only (588 M1A2 SEPs). The M1A1AIM program, originally funded to provide 790 tanks to the Containment Force, was reduced to 695 M1A1AIMs through FY08, due to unanticipated unit costs and replacement rates for main gun tubes and digital electronic control units (DECU). At this time, the Army is reviewing the modernization requirements for the 3ACR. 3ID will retain the Abrams M1A1HA+ Tank.

↳Unanticipated increases in unit costs and replacement rates for Gun Tubes and Digital Electronic Control Units (DECU) will reduce the number of M1A1AIM tanks produced each year through FY07

4. Baseline Schedule: Table 2 presents the Abrams Full Recapitalization Program Schedule. Quantities reflected in the table are shown in the year they are funded.

Abrams Recap Program	To Date	FY02	FY03	FY04	FY05	FY06	FY07	FY08	Total
M1A1 AIM		135	135	135	135	135	115		790
M1A2 SEP	356	129	134	43	52	74	87	91	966

Table 2

5. Revised Baseline Schedule (ANNEX A): The information paper represents the FY04 Presidents Budget Lock dated March 2003. The current program represents a reduction from the original 2001 approved Abrams Recapitalization Program. The majority of the reduction in funding is due to the reduction in M1A2 SEP procurement quantity from 966 to 588 M1A2 SEP tanks but also encompasses the reduction in the AIM rebuild from 790 to 695 due to increased costs.

6. Performance Measurement: Table 3 outlines performance measurement plans for Abrams systems. To note, the Army Total Ownership Cost (ARTOC) is developing a measurement plan for the new Abrams Tank Engine Program, known as the LV100 engine. ARTOC will track results of LV100 engine performance metrics by utilizing existing data sources and leveraging on AMSAA directed sample data collection, Field Exercise Data Collection (FEDC) efforts, OSMIS, and Automated Identification Technology (AIT).

Metric	Objective	Source of Data
Formula	Performance Measures	
1. Reduce Average Fleet-Age	Reduce Average Fleet Age to 6.7 years by 2010 & 9.2 yrs by 2020	PM Combat Systems & TACOM Fleet Age Management Database
$AFA = \frac{\sum A}{N}$	The Abrams baseline average fleet age was calculated in FY2000. Average fleet age will be reported again in FY2010 and FY2020 using PM Abrams Fleet Mgt. Database	
<p>Where: AFA = Average Fleet Age A = Age of tank in years N = Total Number of Tanks (Tanks produced minus "Lost" Tanks) ("Years" = calendar years; "Lost" Tanks = destroyed in tests, transfers to USMC, AIM, transfers to derivative/Wolverine, etc.)</p>		
2. Stabilize O&S cost drivers. <ul style="list-style-type: none"> The Current AGT1500 Engine is the single highest cost driver in the Abrams Fleet. The LV100 engine MTBR reduces O&S Costs. 	LV100 Engine is MTBR Threshold is 1600 hrs.	OSMIS AIT

$MTBR = THT \div TNF$	<ul style="list-style-type: none"> • During development, the performance measurements of the LV100 will originate from Developmental Tests and Operational Tests (DTOT), beginning FY03-FY04. • LV100 Fleet performance data will be available beginning FY05 via OSMIS and AIT. • LV100 Engine Threshold MTBR is 1600 hrs.
<p>Where: MTBR = Mean Time Between Removal (hrs) THT = Total Hours Tested TNF= Total Number of Failures</p>	

Table 3

6. Recapitalization Interfaces: The Abrams Recapitalization Program relies on government-industry partnerships to achieve cost, schedule and performance objectives. The partnerships are between General Dynamics Land Systems (GDLS) and Anniston Army Depot (ANAD). Each partner brings critical skills to the recapitalization effort and is involved in several aspects of the integrated strategy. Table 4 outlines the major recapitalization responsibilities of each partner.

Depot/Industry Partnership	Agreements	Date of Signature/ Implementation	Test Relationship (if required)	Recap Initiative
Industry				
GDLS	M1A1 AIM	Sep 1998	None	Replace/Rebuild Components Reassemble
	M1A2SEP Retrofit	Jan 2002	None	Replace/Rebuild Components Reassemble
Depots				
ANAD	M1A1 AIM	Sep 1998	None	Tear Down/ Rebuild Components
	M1A2SEP Retrofit	Jan 2002	None	Tear Down/ Rebuild Components

Table 4

ANNEX A

Table 1 represents the FY04 Presidents Budget Lock dated March 2003. The current program represents a reduction in funding of over \$2B in FY04 through FY09 from the original 2001 approved Abrams Recapitalization Program. The majority of the reduction in funding is due to the reduction in M1A2 SEP procurement quantity from 966 to 588 M1A2 SEP tanks. Second Destination Transportation (SDT) and Supply Depot Operations (SDO) elements have been updated based on the latest information available. The Abrams recapitalization program is funded and executable for the reduced tank quantities based on the FY04 PB funding requirements shown in Table 1.

Abrams Requirements											
	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY03-09	EPP	Total
RDA	973.5	775.6	397.7	540.6	368.2	379.5	286.8	111.7	3833.6	TBD	TBD
RDTE	159.4	81.8	24.5	16.1	12.9	13.2	8.8	6.7	323.4	TBD	TBD
PA	814.1	693.8	373.2	524.5	355.3	366.3	278.0	105.0	3510.2	TBD	TBD
Weapon Systems	777.7	666.7	361.5	511.8	342.4	364.1	275.8	102.9	3402.9	TBD	TBD
Training Devices	17.1	17.3	6.3	7.3	7.5	2.2	2.2	2.1	62.0	TBD	TBD
Initial Spares	19.3	9.8	5.4	5.4	5.4				45.3	TBD	TBD
STS 1/											
OMA	172.1	150.4	153.6	149.8	150.9	135.2	20.2	17.1	912.0	TBD	TBD
Recapitalization	128.9	129.7	131.8	129.9	132.4	116.0			768.7	TBD	TBD
SSTS	14.7	0.9	0.6						16.2	TBD	TBD
COSIS											
SDO	0.2	0.1	1.9	1.9	1.8	1.9	1.5	0.3	9.6	TBD	TBD
SDT	12.7	5.0	4.8	3.9	2.6	3.2	4.6	2.7	39.5	TBD	TBD
PPSS	15.6	14.7	14.5	14.1	14.1	14.1	14.1	14.1	115.3	TBD	TBD
MWO											
Initial Spares											
Support Equipment (TMDE)											
Training Devices											
CLS											
Other											
Training											
Manning											
Munitions											
Installation Support Costs											
Total	1145.6	926.0	551.3	690.4	519.1	514.7	307.0	128.8	4347.1	TBD	TBD
System Name	am Acquisition Unit Cost										
M1A1 AIM	N/A										
M1A2 SEP	N/A										

1/ Included in Weapon System Cost

Table 1

Table 2 presents the Abrams Full Recapitalization Program Schedule. Quantities reflected in the table are shown in the year they are funded.

Abrams Recap Program	To Date	FY02	FY03	FY04	FY05	FY06	FY07	FY08	Total
M1A1 AIM		135	130	120	110	110	90		695
M1A2 SEP	356	129	103						588

Table 2



DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY
ACQUISITION LOGISTICS AND TECHNOLOGY
103 ARMY PENTAGON
WASHINGTON DC 20310-0103

07 NOV 2001

REPLY TO
ATTENTION OF
SAAL-SI

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: *Recapitalization Program Baseline*

This memorandum sets forth guidance that should be followed to document and track the Army's Recapitalization effort. Enclosed is the template that will be used to develop and execute the individual systems Recapitalization Program Baseline. The Program/Project/Product Manager of the systems that have already been approved by the Army Acquisition Executive/Vice Chief of Staff, Army (AAE/VCSA) will be afforded 90 days from the date of this document to follow and complete the Recapitalization approval process laid out in this Recapitalization Program Baseline guidance. Future candidate systems that have not been seen by the AAE/VCSA will be afforded 60 days after an option is adopted, to complete the process of creating a baseline. All recapitalization systems will obtain validation, within afforded time frames, of the Baseline Cost Data, Cost Benefit Analysis and Trade Off Analysis from the Cost and Economic Analysis Center.

The point of contact for this matter is COL Jim Wells, DSN: 224-3993 or 703-614-3993.


JOHN S. CALDWELL, JR.
Lieutenant General, GS
Military Deputy to the
Assistant Secretary of the
Army (Acquisition, Logistics
and Technology)

Enclosure

DISTRIBUTION:
ASSISTANT SECRETARY OF THE ARMY (ACQUISITION, LOGISTICS AND
TECHNOLOGY), ATTN: SAAL-ZR, SAAL-RP
ASSISTANT SECRETARY OF THE ARMY (FINANCIAL MANAGEMENT
AND COMPTROLLER), ATTN: SAFM-BUI



DEPARTMENT OF THE ARMY

PROGRAM EXECUTIVE OFFICE
GROUND COMBAT SYSTEMS
6501 E. ELEVEN MILE ROAD
WARREN, MICHIGAN 48397-5000

REPLY TO
ATTENTION OF

01 AUG 2003

SFAE-GCS

MEMORANDUM FOR Assistant Secretary of the Army (Acquisition, Logistics and Technology),
103 Army Pentagon, Washington, DC 20310-0103

SUBJECT: Abrams Recapitalization Program Baseline

1. In accordance with the Army Recapitalization Management Policy dated 11 April 2001 and the Abrams RPB guidance dated 7 November 2001, I have conducted a Decision Review of the Abrams Recapitalization Program and approved its entry into Phase I - Program Definition and Phase II - Production/Fielding, pending final approval of the RPB by the Army Acquisition Executive/~~Acting~~ Vice Chief of Staff, Army (ACSA).
2. I am submitting for your review and approval the Recapitalization Program Baseline (RPB) for the Abrams program. The baseline represents the intent of the Combat Systems Project Manager to recapitalize and upgrade 588 M1/M1A2 tanks to the M1A2 SEP configuration, and rebuild 790 M1A1 Abrams Integrated Management (AIM) tanks. As you are aware, these tank procurement quantities represent a significant change from the original Abrams Recapitalization Program, as approved by the Vice Chief of Staff of the Army on 17 August 2001.
3. The Combat Systems Project Office has worked closely with the U.S. Army Tank-Automotive and Armaments Command (TACOM), Cost and Systems Analysis Directorate during development of the Abrams RPB to insure compliance with the RPB guidance approved on 7 November 2001.
4. The Abrams RPB and cost estimating rationale were reviewed by the Cost and Economic Analysis Center (CEAC). CEAC concurred with the costs presented in the Abrams RPB on 14 May 2003.
5. The point of contact for this matter is Susan Rachofsky, (586) 574-6479, DSN 786-6479.

Encl


JOSEPH L. YAKOVAC
Major General, USA
Program Executive Officer,
Ground Combat Systems



DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY
FINANCIAL MANAGEMENT AND COMPTROLLER
109 ARMY PENTAGON
WASHINGTON DC 20310-0109



REPLY TO
ATTENTION OF

14 MAY 2003

SAFM-CES-U

MEMORANDUM FOR THE PROGRAM EXECUTIVE OFFICER, GROUND
COMBAT SYSTEMS (GCS), ATTN: SFAE-GCS, WARREN, MI
48397-5000

SUBJECT: Abrams M1A1 AIM Recapitalization Baseline
Cost Sufficiency Review

We have reviewed the Recapitalization Baseline Cost Estimate for the Abrams M1A1 AIM. Our review focused on the methodology underlying the cost estimate only and not the cost data inputs to the methodology, since there are no Contractor Cost Data Reports or other historical actual cost reports for this program. We find the current estimating methodology to be acceptable.

Per our agreement, Assistant Secretary of the Army Acquisition, Logistics and Technology ASA (ALT) will examine the potential savings of the program and any potential supportability issues in Phase II. The above exclusions will need further review and validation through an established ASA (ALT) O&S working group.

Points of contact are: Mrs. Farideh Sharifi, DASA-CE, (703) 601-4131 or DSN 329-4131; and Mr. John Murray, DASA-CE, (703) 692-7408 or DSN 222-7408.

Encl

Robert W. Young
Deputy Assistant Secretary of the Army
(Cost and Economics)

CF:
PM - GROUND COMBAT SYSTEMS
ASA ALT), ATTN: SAAL-S1

INFORMATION PAPER

Subject: Abrams Recapitalization Program Baseline (RPB) Amendment

Purpose: Provide information concerning changes to the Abrams RPB as a result of the FY04 President's Budget (PB)

Background: On August 17, 2001, the VCSA approved the Recapitalization plan for the Abrams program. The Abrams Recapitalization program includes both a selected upgrade (M1/M1A2 to M1A2 SEP) and a rebuild (M1A1 AIM). The approved recapitalization plan upgraded 966 M1A2 SEPs for the Counterattack Corps (CATK) and rebuilt 790 M1A1 AIMs for the Contingency Force (CF).

Discussion:

- Due to increased funding requirements for Army Transformation, the Abrams recapitalization program was significantly decreased in the FY04 PB.
- Impact to the Army includes:
 - Reduces upgrade program from 966 to 588 M1A2 SEPs
 - Only 41D and 1CD will receive SEPs
 - 3ACR to receive rebuilt M1A1 AIM tanks
 - The Army is currently reviewing 3ACR tank requirements; considering M1A2 SEP vice M1A1AIM tanks.
 - 3ID to retain current M1A1s
 - The M1A1AIM program, originally funded to provide 790 tanks to the Containment Force, was reduced to 695 M1A1AIMs through FY08, due to unanticipated unit costs and replacement rates for main gun tubes and digital electronic control units (DECU).

(\$000's)	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY04-09
FY03 PB RDA Funding	\$985,040	\$773,360	\$845,442	\$806,905	\$894,401	\$874,958	\$660,827	\$287,559	\$ 4,370,092
Decrement	\$ 11,469	\$ (2,209)	\$447,728	\$266,279	\$526,140	\$495,423	\$374,047	\$175,839	\$ 2,285,456
Remaining	\$973,571	\$775,569	\$397,714	\$540,626	\$368,261	\$379,535	\$286,780	\$111,720	\$ 2,084,636
% Decrement	1%	0%	53%	33%	59%	57%	57%	61%	52%
FY04 PB RDA Funding	\$973,571	\$775,569	\$397,714	\$540,626	\$368,261	\$379,535	\$286,780	\$111,720	\$ 2,084,636
FY03 PB OMA Funding	\$126,855	\$129,680	\$132,911	\$135,756	\$138,253	\$120,913			\$ 527,833
Decrement	\$ -	\$ -	\$ 1,112	\$ 5,845	\$ 5,831	\$ 4,912			\$ 17,700
Remaining	\$126,855	\$129,680	\$131,799	\$129,911	\$132,422	\$116,001			\$ 510,133
% Decrement	0%	0%	1%	4%	4%	4%			3%
FY04 PB OMA Funding	\$126,855	\$129,680	\$131,799	\$129,911	\$132,422	\$116,001			\$ 510,133

Above OMA funding is only for AIM program, does not include SDO, SDT, SSTS, PPSS etc

Quantities	Prior	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY04-09
M1A2 SEP										
VCSA Qty	356	129	134	43	52	74	87	91		966
FY04PB	356	129	103							588
M1A1 AIM										
VCSA Qty		135	135	135	135	135	115			790
FY04PB		135	130	120	110	110	90			695

Conclusion: Changes to the FY04 PB reduced the VCSA approved Abrams Recapitalization program to provide funds to Army Transformation



DEPARTMENT OF THE ARMY
WASHINGTON, D.C. 20310

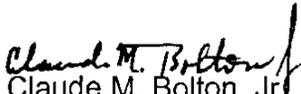
16 SEP 2003

SAAL-SMS

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Abrams Recapitalization Program Baseline (RPB) Approval

1. The Abrams RPB, enclosed (Tab A) is the latest of 17 major Army systems to submit its RPB for review and approval by the Army Acquisition Executive/Vice Chief of Staff of the Army. This RPB is submitted in accordance with guidance provided in the November 2001, memorandum (Tab B) from LTG Caldwell tasking Recapitalization Program Executive Officer's (PEO's) to prepare and submit the RPB after performing required coordination with the appropriate Major Subordinate Command and having the Cost and Economic Analysis Center validate the methodology used for the Recapitalization cost estimate (Tab C). Due to cuts in the program from when it was first approved by the AAE/VCSA in November 2001 the quantities have decreased from 966 M1A2SEPs to 588 M1A2SEPs and from 790 M1A1AIMs to 695 M1A1AIMs (Tab D). The PEO Ground Combat Systems conducted a decision review of the Abrams Recapitalization Program and approved its entry into full rate production.
2. In accordance with the Army Recapitalization Management Policy, the Abrams RPB, dated 17 October 2001, is approved for implementation. The PEO and Project Manager will execute all selected upgrades and rebuilds for the Abrams system in accordance with the funding and schedule baselines documented in the RPB. The RPB will provide the basis for sound management and a historical record from which to measure success.
3. It is imperative that we work together and establish close partnerships at all levels to ensure success. Our warfighters depend on this recapitalization effort to maintain system readiness, sustainability, and combat overmatch as we transform the Army.
4. The point of contact for this matter is Mr. Steve Thorson, commercial 703-604-7153, DSN 664-7153, or e-mail: steven.thorson@saalt.army.mil.


Claude M. Bolton, Jr.
Army Acquisition Executive


JOHN M. KEANE
General, United States Army
Vice Chief of Staff

Enclosures

SUBJECT: Abrams Recapitalization Program Baseline (RPB) Approval
DISTRIBUTION:
ASSISTANT SECRETARY OF THE ARMY (ACQUISITION, LOGISTICS
AND TECHNOLOGY), ATTN: SAAI -7R, SAAI -RP
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