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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) In order to reduce impacts of US equipment diversions, PL 97-113, 29 Dec 81, authorized establishment of the SDAF to procure high demand, long leadtime, short supply items in anticipation of foreign requirements. Study developed uniform criteria for identification of items and quantities to be procured. It examined 4 versions over past five years and recommends items for acquisition FY 84-88.		

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REFERENCE OR OFFICE SYMBOL DALO-LEP	SUBJECT Special Defense Acquisition Fund (SDAF)
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TO DALO-SAZ-A	FROM USALEA	DATE 15 NOV 1982 CMT 1 Mr. Fleming/md/6551
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1. References

a. DF, DALO-SAZ-A, 3 March 1982, subject: Project Proposal: Special Defense Acquisition Fund.

b. DF, DALO-SAA, 9 June 1982, SAB.

2. Reference 1a tasked this Agency to determine a methodology for identifying Army candidates for purchase with subject fund, and to develop a formula for determining optimum quantity of each item to be procured. Reference 1b approved the project plan.

3. At Inclosure 1 is the methodology requested.

4. The project plan requirements were not precisely fulfilled, in that certain Essential Elements of Information (EEIs) could not be completely answered. The following comments, keyed to the project plan, explain these exceptions:

a. Paragraph 5d(3). "Are these items or their more modern replacements presently in the hands of US Army troops or under procurement within the FY 84 through FY 88?" Answering this question in its entirety is not feasible. An insight to the answer was gained by assuming that if the item was indicated in the DCSRDA Program Objective Memorandum (POM) worksheets, it is or would be in the hands of US Forces, which answers only the second part of this EEI.

b. Paragraph 5d(4). "What is the criticality of these items to influence the outcome of crises?" This is a matter of judgment. Many of the diverted items were seemingly insignificant and discarded from further consideration. Even so, they do not otherwise meet the criteria of the methodology.

c. Paragraph 5d(6). "What items have foreign governments projected but not funded?" Research failed to glean this information and it is concluded that it does not exist. The most pertinent information was gained from a document, "Congressional Presentation-Security Assistance Programs, FY 1983." It indicated unpledged, unconsolidated desires of foreign governments to acquire defense equipment, expressed in broad generic terms— "howitzers, tanks, helicopters, etc." It is not possible to convert these items to specific Standard Study Numbers for detailed analysis. Nevertheless, this document was a useful reference in that it summarized Foreign Military Sales (FMS) and Grant Aid history, from which some SDAF inferences can be drawn.

5. Another exception to the project plan relates to Milestone 3.00, develop a set of alternative 5-year procurement schedules. The attempt evolved into meaningless data and is hence omitted. A single 5-year plan is included in this report.

Reasons:

a. A meaningless combination of varying quantities would result.

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b. The unit cost figures are so fluid that they would be of no value beyond the then current price for any future updating of the POM worksheets. No reliability in the total figure within SDAF funding limits could be imputed to them if they were projected into the future.

c. The POM worksheets are updated so frequently by the DCSRDA analysts that no series of alternate 5-year procurement schedules would be of any use to them. Rather, a single standing "next year" schedule is sufficient for the consideration of these analysts. When new information is available, or new diversions occur, this single "next year" plan should be amended as necessary for input to the next updating of the POM worksheets.

6. The following conclusions are drawn from this study:

a. A great majority of the items diverted are from on-hand (as of 30 September 1981) quantities significantly below their authorized acquisition objectives (AAO).

b. Identifying candidates for the SDAF is a decision process requiring authority and judgment based on detailed data from a number of separate sources.

c. To make accurate decisions as to what to buy with the SDAF, more precise data as to the earnest intent of foreign governments is needed. It may not be possible, however, to obtain the cooperation of these governments for earnest commitments 5 years in advance.

d. A centralized point (office or agency already in being) should be charged with the responsibility of collecting these data, analyzing them, and recommending items for the SDAF.

e. There is no pattern of diversions from US stock to fill urgent unanticipated requirements of foreign governments. Of all diversions which might otherwise meet the criteria of the methodology, the only Class VII items diverted in every year were the Recovery Vehicle M88A1 and the AN/VRC-46 Radio. In Class V, only the the TOW HEAT Missile and PD Fuses M557 and M739 were diverted every year.

f. As a system is set up for collecting and analyzing data, the methodology developed in this study will be more beneficial in the out years than for FY 84.

7. Two significant fallout findings evolved from this study:

a. The Armored Personnel Carrier M113A2, although not otherwise a candidate for SDAF purchase, should be purchased in significant quantities as funds permit. This item has been included on the recommended list (Incl 3 to Incl 1), with rationale.

b. It was disclosed that an unknown quantity of M48-series tank chassis, less turrets, exist as surplus stocks, reportedly at Red River Army Depot, along with compatible turrets from another configuration. Both the chassis and the turrets are fully supportable with current stocks of ammunition and repair parts for as long as the M60-series tanks will remain in the US inventory. These vehicles, refurbished and

**A METHODOLOGY FOR DETERMINING ITEMS FOR
5 YEAR SPECIAL DEFENSE ACQUISITION FUND (SDAF)
REQUIREMENTS PROGRAM**

1. Limiting criteria for items to be procured by the SDAF, hereinafter referred to as the "Fund." Items recommended must:

- a. Be usable by the US Force Structure, or accelerate its modernization.
- b. Be in production (or its replacement item) in the program year.
- c. Be a critical, short supply, long lead time procurement item.
- d. Be expected to meet urgent, unprogramed requirements of friendly foreign nations.
- e. If purchased, reduce the impact on US readiness which would have occurred had they not been in the SDAF stocks, and would have been diverted from US Army inventories.

2. Methodology.

- a. Obtain DARCOM lists of diversion requests from the past 5 years.
- b. Consolidate these lists in alphabetical sequence, by NOUN (Incl 1).
- c. Make a preliminary judgment as to what items initially fail to meet the limiting criteria for further consideration. If an item--
 - (1) Is obviously a secondary item of high density, short lead time (clevis pins, tie down straps, parachutes, etc.) or
 - (2) Is diverted in only a single quantity only once in the Five Year Defense Program (FYDP) (transfer case of an M135 truck), or
 - (3) Is not critical for a crisis (blank 5.56 cartridges, regardless of quantity, etc.), it may be dropped at this point in the analysis process.
- d. After the initial eliminations are done, a more detailed worksheet(s) to display all essential data elements upon which to base later judgments is required. Inclosure 2 is the worksheets for the items diverted in FY 78-82, and considered for the Fund for the FYDP 83-88. To develop entries for these data elements displayed on the worksheets, considerable research is necessary. This process is described below:

(1) The NOUN is given on the list of diversions for each year. The NOUN on the list, however, may not be identical to that stated in SB 700-20. The analyst must make a judgment as to the most appropriate SB 700-20 NOUN description. For many items, the DARCOM listing gives the Federal/NATO Stock Number (NSN), which is helpful.

(2) SB 700-20 identifies the NOUN to Line Item Number (LIN), and unit price.

(3) Determination of the appropriate Standard Study Number (SSN) must be researched through the following documents periodically published by the US Army Management Systems Support Agency (ATTN: HQ/ACSC-MS-DP-D/BD977):

(a) RB 1301, SSN Cross Reference by Study (3 August 1982 latest).

(b) RB 1302, SSN Cross Reference by LIN (3 August 1982).

(c) RB 1303, SSN Cross Reference w/o LIN (3 August 1982).

(4) Unit acquisition price is obtained from the DCSRDA Program Memorandum Objective (POM) worksheets, or SB 700-20, but these sources do not agree with each other. The POM worksheet prices are generally higher, and vary markedly between years. Thus, the current unit cost figures should not be used for Fund studies beyond any current consideration, and must be updated each time the POM worksheets are updated. For this reason, the unit cost of the items recommended for FY 84 Fund buys are not reliable, but must be updated and extended at the time the Fund is obtained so as to stay within the limits on the Army's allocation of the Fund.

(5) When the SSN matching each LIN has been recorded per paragraph b(3), above, research of the POM worksheet of each item, item-by-item, is required to complete the remaining data entries. The POM worksheets are contained in seven unnumbered volumes:

(a) Aircraft Procurement Army.

(b) Missile Procurement Army.

(c) Procurement of Weapons and Tracked Vehicles Army.

(d) Ammunition Procurement Army.

(e) Other Procurement - Tactical and Other Support Vehicles Army.

(f) Other Procurement Communications and Electronic Equipment Army.

(g) Other Procurement, Other Support Equipment Army.

e. When all data element entries on the worksheets are complete, the analyst must study each item to see if it meets the criteria listed above. Professional judgment is necessary. If an item--

(1) Is not in the POM for any of the out 5 years;

(2) Is in the POM but there is no programmed quantity in any of the 5 years and the item is not of a significant quantity to initiate production; It should be dropped from further consideration.

f. When the above are accomplished, the analyst must select the most critical items remaining as candidates for the Fund, according to their importance. Generally an item should "shoot, skoot, or communicate". Broadly, tanks, guns, ammunition, and radios would fit these qualifications.

g. The gross amount of each year's Fund will be allocated among the Services, and acquisition costs will vary from year to year. The analysts must therefore be prepared to adjust quantities so as not to exceed the Army's allocation.

3. The process described herein is a continuing one. It must be reviewed at each update of the POM worksheets.

4. This methodology has been used to develop a recommended list of items for the fund for FYs 84 through 88 (Incl 3). Although this methodology is logical, following it may not result in satisfying unprogramed, urgent foreign requirements, for these requirements result from an interplay of unpredictable events. Analysis of the types of diversions which this methodology hopes to obviate indicates that diversions are directed from the highest levels of the Administration, and are complied with despite lower level recommendations to the contrary.

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Aiming Circle, M2	1	3	100		25
Air Conditioner 6,000 BTU				25	
Ambulance 1/4 Ton				6	
AN/TRN-30(V) 1					10
AN/TRN-30(V) 2					10
Armament Subsystem M23				20	
Armored PSL CAR M113A1		56	48		
Audio Oscillator					4
Axle, M35A2				1	
Axle, Front, M35A2				1	
Battery Charger		2	1		
Battery Charger					1
Battery Charger (TOW)			5	2	67
Boat, Recon, Pneumatic (5 person)			39		
Bottle Cleaning Charging Station					1
Brewster Training Device					5
Bridge, Erection Set		1			
Cannon, M68		1			
Charge, Prop 8" M188, M188A1		50		90	
Charge, Prop 8", M1	1000			3200	
Charge, Prop 8", M2				3000	
Charge, 155, M3			2604	2500	77

ITEM	DIVERIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Charge, 155, M4, ,M4A2	19350		10500	15202	3196
Charge, 155, M119A2				13050	67
Cartridge 165 HEP M123A1					50
Cartridge 105, M1			110000	5110	3000
Cartridge 105, M392	500		992		
Cartridge 105 HEPT-T M393A2			384	830	
Cartridge 105 HEP-T M393A1E1	1350				1058
Cartridge 105 WP-T, M416			3900		500
Cartridge 105, M546A1			736		
Cartridge 105, TP-T, M467			525		
Cartridge 105, TP-T, M490	2440			600	1000
Cartridge 105, HEAT-T, M456	880	630		3842	5000
Cartridge 105, APERS M491					5000
Cartridge 105, APERS M494			4488		7264
Cartridge 105, DSTP-T M724				2368	550
Cartridge 105, M735			64		11000
Cartridge 105, M735A1 APFSDS-T			400	350	
Cartridge 105, WP-T	240				
Cartridge 4.2", HE M329A1				3400	
Cartridge 4.2, HE M329A2				19608	
Cartridge 81mm, ILL w/fuze M301A3	216		105600	1620	

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Cartridge 81mm, M375 SMK WP	504	1800			
Cartridge 81mm, M374A2				3780	26676
Cartridge 90mm, HEAT M371A1	4000			10000	5880
Cartridge 60mm, HE M49A2				10000	12096
Cartridge 60mm, M83A1			12096	5000	
Cartridge 57mm				1000	
Cartridge 40mm, HEDP					46000
Cartridge 40mm, HE M383			3000		
Cartridge 40mm, M386				38284	
Cartridge 40mm, M433					20100
Cartridge 40mm, M583 White Star					9724
Cartridge 20mm, HEIT, M246	520000				
Cartridge .50cal, linked M20			114750	109980	
Cartridge .50cal, M33			193080	40600	
Cartridge .50cal BALL M33					63000
Cartridge .30cal				1555200	104000
Cartridge, 7.62 rifle Grenade M64	2320				
Cartridge, 7062			2380000	1559140	
Cartridge, 5.56 BALL	1048320	11244240		2250000	13900000
Cartridge, 5.56 Tracer M196		6769920	11480		
Cartridge, 5.56 blank, M200		3173760			

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Carrier, Cargo M548					
Carrier, CP M577A2					
Clevis, Assy, Cargo Tie			4720		
Commo Patch Center					1
Coupling, Air Drop			174		
Demolition Kit, Exp, Elec			3	24	
Defferential for M35A2				1	
Dragon, CM & LAU M23	20				
Dragon, Battery Pck			9		
Dragon, Coolant Cartridge			9		
Dragon, Field Handling Round		120			
Dragon, Kit APC Installa					2
Dragon, Monitoring Set, GM, AN/TSQ-T1	4		6		
Dragon, Monitoring Set Training Device			2		
Dragon, Night Vision Sight Tracker			3	4	
Dragon, Pedestal, Infrared Transmitter, MS	1				
Dragon, Terminal Target Board MOD kit			2		
Dragon, Test Set, GM Infrared, Tracker AN/TSM-114	2		1		2
Dragon, Tracker, GS Infrared SU-36/P			90	30	

ITEM	DIVERSIONS:				1
	78 QTY	79 QTY	80 QTY	81 QTY	
Dragon, Trainer, Launch Effects, M54	4				
Dragon, Transmitting Set Infrared, M89E1	1				
Filter Unit, GP Hosp, M7A1	1				
Flare, Surface, Trip M49			6336		
Frequency Converter			1		
Fuze, MT M565		684		225	
Fuze, MTSQ M278				1506	
Fuze, MTSQ M564	2000	736	2208	13824	
Fuze, PD, M557	90000	3612	50448	4666	
Fuze, PD, M739			7233	1252	
Fuze, Prox. M514	10000				
Fuze, Prox. M532	2152				
Fuze, Prox. M728				2815	
Fuze, Prox. M732				1704	600
Generator 1.5kW				1	
Generator 10kW				1	
Generator 15kW				2	
Generator 30kW				3	
Generator AN/URM-103		1			
Generator Set 5kW					13
Generator Set Diesel, 10kW				5	
Goggles, Image intensifier					150
Grenade, Hand, Frag, M67			49276	126790	10000

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Machine Gun .50cal M85		32	154		20
Machine Gun 7.62 M240		32	32		20
Mount, Tripod .50cal			41		
Mount Tripod MG M122			10		
Magazine, 30rd	20000				
Mortar 4.2" M30 w/mt M24A1			3		
Mortar Carrier M125A1					6
Mortar 81mm M29A1			30	30	318
Mortar 60mm M19			2	80	
Mask, Protective M17			2000		
Mask Modification Kit			10		
Mask, Protective, Tank M25A				8	8
Mine Detector AN/PSS-11					3
Mine Detector AN/PRS-8 Met/Non-Met					8
Modification Kit 3A	2				
Modification Kits					100
Missile Training Set					1
Multimeter AN/USM 223				20	
Multiplexer TD600-G					26
Multiplexer TD754-G					2
Night Scope AN/TVS-5		36			2
Night Vision Goggles			48		

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Night Vision Sight Set AM/PVS 2			40		
Night Vision Sight Set AM/UAS 12			13		
Night Vision Sight Test Set AN/TAM-3			1		2
Oscilloscope AM/USM-281C			1		
Pad, Energy Dissipating Honeycomb			14480		
Panel, Platform Type 2			596		
Parachute, Cargo G-12-D, 64ft			100		
Parachute, Cargo, Extraction			174		
Parachute, Cargo Ext. 15ft			8		
Parachute, Cargo Release			10		
Parachute, Cargo Release M1			174		
Pedestal, Infrared, Trans- mitter GM Sys, MS TOW				2	
Pistol, 45cal M1911A1			41		
Power Supply P2309			1		
Power Unit, GED, PU617				25	78
Primer, Percussion M82			63000	111105	4000
Primer, Percussion MK2A4		5075	11675	69080	3750
Projectile 8", M106	4002		10008	3006	
Projectile 8", HERA M650					72
Projectile 155mm 116A1 SMK					30

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Projectile 155mm M107 HE RAP		2000	2000		180
Projectile 155mm HE M107				3060	
Projectile 155mm HERA M549A1					20
Projectile 155mm ILLUM M485				504	600
Projectile 155mm ILL M118					424
Pulse Form Restorer TD-206				40	
Pump, Centrifugal 125 GPM		2			
Radio Terminal/Radio Repeater AN/TRC-151				8	
Radio Terminal AN/TRC-152				2	
Rail Platform, Side 8'			60		
Rawin set AN/GMD-1B					1
Redeye Test Set AN/TSM-82				2	
Redeye Test Set Equipment				1	
Redeye Test Set Kit, Supplemental				1	
Redeye Training MSL M46A2				27	
Redeye Test Set M76				6	
Redeye Test Set Weapon M41				320	20
Reel Unit CE-11				24	250
Reeling Machine RL-39					95
Rifle, 5.56mm M16A1		13102	174		5000
Rifle, Recoilless, 90mm M67		18		36	
Rifle, Recoilless, 106mm M203		37			

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Rifle, R.R 106mm M40A2			107		
Rocket, HE, 66mm (LAW)	315				
Recovery Vehicle M88A1	1	3	33	2	2
Radiacmeter IM 93A/UD					110
Radar, Ground Surv-AN/FPS-5B					8
Radar Set AN/TPQ-36		1	7		
Radio Equip AN/TYS-5					14
Radio Equip AN/PVS-5A					2
Radio Set AN/GRC-106			3	2	6
Radio Set AN/GRC-160		12	326	5	
Radio Set AN/PRC-74C			6		
Radio Set AN/PRC-77		443	518	22	
Radio Set AN/VRC-12		15	67		
Radio Set AN/VRC-46	407	122	11	10	41
Radio Set AN/VRC-47	78	59			2
Radio Set AN/VRC-49	52	45			
Radio Set AN/VRC-64		3	152		
Radio Set AN/VSC-3				6	
Radio Set Freq Monitor AN/UBQ L/462		15			
Radio Set Repeater					2
Radio, TT Set AN/GRC-122 L/P			27		
Radio, TT Set AN/CRC-142B			1		
Searchlight AN/VSS-3A			77		

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Semitrailer, HET, LB M747			3		
Shackle Assy			160		
Shop Equip					
Shop Equip					
Shop Equip Arty Maint					
Shop Equip, Aut Maint			1		
Shop Equip Instr & Fire Control				2	
Shop Set F.M.			1		
Shop Set, Auto Repair FM					
Shop Set FM, Auto Supl #1				1	
Shop Set, Fuel & Elec					
Sights AN/TUS-5					
Signal Generator AN/OR M103					
Signal Generator SG1144			59		
Signal, ILL, White Star M127				7	
Skid, Cargo Bag Platform				3516	
Sling, Cargo 8' 3-loop			1000		
Sling, Cargo, 11'			179		
Sling, Cargo, 12' 3-loop			260		
Sling, Cargo 16' 3-loop			80		
Sound Ranging Set AN/TNS-10			264		
Switchboard SB-86			3		
Switchboard SB-22/PT	6				
	11				
					31

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Tank M60A1		64	6		
Tank M60A3			69	64	20
Tank M48A5			50		6
Test Set AN/VRM-1			4		
Test Facility Kit MX980A/ PPS-5			2		
Test Set, Radar AN/TPM25A			1		
Test Set, Radar AN/UPM-29C			1		
Telephones TA-11P	108				88
Telegraph Terminal					2
Tool Set FM Cal 50			1		
Tool Set, GM			1		5
Tool Set, Instr & PC			1		2
Tool Set, DSGS Small Arms			1		
Tool Set, Small Arm Wpns			1	6	6
Tool Set, 2B (Fr M88A1)				1	
Tool Kit, Maint					2
Tool Kit, FA-105					2
Tool Kit, Turret Mech			1		
Tie Down Assy, 15' Dacron			6907		
Tool Sets					3
Trailer, Water Tank 400 gal				6	22
Trailer, Fuel 5000 gal					6
Trailer, 1 1/2-ton M105A2					4

ITEM	DIVERSIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Trailer, Chassis 3 1/2-ton		15			
Transceiver AN/PRC 77					
Transporter, Tank M911					
Transporter, Tank M747 (semitrailer)					
Truck, Tank, Fuel SV			3		
Truck, Tractor M818				15	
Truck, 2 1/2 ton M35A2					
Truck, Forklift, 10000lb				26	
Tractor, 85000GVW, HET M911			2		
Tracker, Infrared GM, SU-36P	4		3		
Transmission MOD Kit					
Thermal Target Board			10		
Thermal Target Bd MOD Kit			3		
TOW:					
Missile HEAT					1
Missile Simulator Rd	57	447	1030	1644	115
Missile Practice		12	20	100	
Missile Blas Simulator Assy		64	120	399	
Launchers M220A1		5000	42900	47000	1400
Test Set		42	61		
Battery Charger		3	1		
Bottle Cleaning Charging Station			8	2	
Contract Support Set			1		
			4		

ITEM	DIVERIONS:				
	78 QTY	79 QTY	80 QTY	81 QTY	82 QTY
Tool Set: Spcl for Traversing Unit			1		
Tool Set: Spcl Tools for Optical Test Set			1		
Tool Set for Optical Sight	1				
Instructor Console				10	
Night Sights AN/TAS-4				4	
MOD Kit (M113 storage kit)					2
Training Set GM M70		3	3		
Wrench Set, Tube Type					1