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UNITED STATES GOVERNMENT

Memorandum

TO : Code 9110

7032-791:FVH:grr
DATE: 4 November 1975

FROM : Code 7030

SUBJECT: Siss Zulu Continuation

Ref: (a) APO Memo 7032-764:FVH:d1m of 28 Oct 1975

Encl: (1) Cost Estimate for Siss Zulu Relocation
(2) Cost Estimate for adding Siss Zulu to SEL-85

1. As requested, enclosure (1) and enclosure (2) are provided.

2. Enclosure (1) details the cost estimate to relocate a full Siss Zulu capability from [redacted]
[redacted]

3. Enclosure (2) details the cost estimate to provide an on-line seven track Siss Zulu digital capability on the SEL-85 computer at [redacted]

4. Comparing costs defined in enclosure (1) with those in reference (a), a savings of \$52,798.00 for the [redacted] installation and \$3,238.00 for the [redacted] installation can be achieved.

5. In addition, the following costs have already been identified and funded in the FY-76 Siss Zulu NRL budget and can be deducted from the Siss Zulu relocation costs identified in enclosure (1).

a. [redacted] Installation

(1) [redacted] spare parts and equipment for one (1) year (utilize at [redacted]) \$ 10,000

(2) [redacted] Spare Support for one (1) year
(utilize at [redacted]) 30,000
Total 40,000

b. [redacted] Installation

(1) Equipment Shipment (Air, [redacted]) 56,000

(2) Equipment Shipment [redacted] → Site) 100

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Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

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(3) Hardware, Tool, Material & Equipment	\$ 3,900
(4) Personnel [REDACTED]	100
(5) Travel, Foreign [REDACTED]	7,854
(6) Travel, Local [REDACTED]	100
(7) Per Diem [REDACTED]	2,800
(8) NRL Manpower [REDACTED]	26,600
(9) Spare Parts and Equipment for 1/2 year	5,000
(10) Spare Support for 1/2 year	15,000
TOTAL:	<u>\$117,454</u>

REID D. MAYO, Manager
Advanced Projects Office~~SECRET~~HANDLE VIA
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COST ESTIMATE FOR SISS ZULU RELOCATION

ITEM	COLLECTION	ANALOG	DIGITAL	TOTAL	COLLECTION	ANALOG	DIGITAL	TOTAL	REMARKS
NAVSPARSUR Support Costs									No Charge
Space Allocations within Buildings									
Site Costs (Facilities Alteration)									
A. Power	2,000			2,000	800			800	Does Not Include Labor
B. Airconditioning	2,500			2,500	0			0	Does Not Include Labor
C. Ground System	1,000			1,000	1,000			1,000	
D. Floor Work	0			0	0			0	Included in Manpower
E. Cable Entry Ports (3)	-			-	-			-	Included in Manpower
F. Target Antenna Installation	50			50	50			50	Does Not Include Labor
G. Cable Trench	-			-	-			-	See Contractor Support
H. Antenna Pad Excavation (3 Holes)	-			-	-			-	See Contractor Support
I. Antenna Pad Fabrication (3 Pads)	-			-	-			-	See Contractor Support
J. Consignment	15,000			15,000	15,000			15,000	\$5K Each Team
EQUIPMENT-HARDWARE									
A. New									
1. MUX/CDP Interface			6,500	6,500			6,500	6,500	{ SEL Model No. 761842
2. Digital Tape Transport									
3. Controller			28,500	28,500			28,500	28,500	
4. DCC Cards									
5. Tower, Antenna	00			00	8,000			8,000	
6. Ant. Cable Run Ass'y (3 req'd)	9,540			9,540	9,540			9,540	
7. Position Risers	5,600			5,600	N/R			N/R	
B. Refurbishment									
1. Equipment	5,000			5,000	5,000			5,000	
2. Cables & Misc. Hardware	1,000			1,000	1,000			1,000	
Spare Parts & Equipment for 1 Year	7,500	500	2,000	10,000	7,500	500	2,000	10,000	O & M
Spare Support for 1 Year	22,500	1,500	6,000	30,000	22,500	1,500	6,000	30,000	O & M
CONTRACTOR SUPPORT									
A. Cable Trench (200 ft x 1 ft deep)	250			250	500			500	Backhoe @ \$250/day
B. Ant. Pad Excavation (3 Holes 10'x10'x5')	750			750	1,500			1,500	
C. Ant. Pad Fabrication (3 Pads)	4,500			4,500	4,500			4,500	Crane @ \$300/day Alteration for Crane
D. Crane	300			300	300			300	
E. Fence Modification	2,000			2,000	-			-	
TRANSPORTATION									
A. Equipment Shipments									
	29,250	1,950	7,800	39,000	42,000	2,800	11,200	56,000	Need Equipment Sitter
	3,210	214	856	4,280	75	5	20	100	Two (2) Trucks Each

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ITEM									REMARKS
	COLLECTION	ANALOG	DIGITAL	TOTAL	COLLECTION	ANALOG	DIGITAL	TOTAL	
B. Hardware, Tool, Material & Equip.									
1.	525	35	140	700	2,925	195	780	3,900	3000 Pounds
2.	1,540	103	411	2,054	3,938	262	1,050	5,250	Ped=7900 lbs/Pg=4200 lbs
3.	975	65	260	1,300	4,678	313	1,250	6,250	5,000 Pounds
C. Personnel									
1.									
2.	600	40	160	800	75	5	20	100	Two Rental Cars Req'd
3.	338	22	90	450	338	22	90	450	Two Rental Cars Req'd
	750	50	200	1,000	750	50	200	1,000	Three Rental Cars Req'd
TRAVEL									
A. Foreign									
1.	735	49	196	980	5,890	393	1,571	7,854	Seven (7) Men
2.	2,100	140	560	2,800	3,712	248	990	4,950	Five (5) Men
3.	3,360	224	896	4,480	5,940	396	1,584	7,920	Eight (8) Men 6 + 2
B. Local									
1.	75	5	20	100	75	5	20	100	
2.	75	5	20	100	75	5	20	100	
3.	150	10	40	200	150	10	40	200	
PER DIEM									
A.	2,772	185	739	3,696	2,100	140	560	2,800	
B.	1,665	111	444	2,220	2,565	171	684	3,420	
C.	3,510	234	936	4,680	5,700	380	1,520	7,600	
NRL MANPOWER									
A. (Seven Men)	13,650	910	3,640	18,200	19,950	1,330	5,320	26,600	
B. (Five Men)	9,000	600	2,400	12,000	10,500	700	2,800	14,000	
C. (Eight Men)	17,100	1,140	4,560	22,800	19,500	1,300	5,200	26,000	
DOCUMENTATION									
A. New									
1. MUX/CDP Interface			1,000	1,000			1,000	1,000	
2. Digital Tape Transport			30	30			30	30	
3. Controller			30	30			30	30	
4. DCC Card			20	20			20	20	
5. Software for New Programs									
Update, Revision & Replacement	1,000			1,000	1,000			1,000	{ Included in Software Proposal
TOTAL	171,870	8,092	68,448	248,410	209,135	10,730	78,999	298,864	Includes Digital Mod

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~~SECRET~~COST ESTIMATE FOR ADDING SISS ZULU TO SEL-85
DIGITAL CAPABILITY TO

<u>ITEM</u>	<u>COST</u>	<u>REMARKS</u>
<u>SITE PREPARATION:</u>		
1. Modify Floor Tile		} 2 Men - 2 Days } 4 Man-Days
2. Add Electrical Service		
3. Travel	1,820	
4. Per Diem	360	
5. Manpower	3,200	
6. Materials, Equipment		
Hardware	200	
7. Shipment	1,300	1,000 lbs @ \$1.30/lb
<u>SITE INSTALLATION:</u>		
1. Install checkout and instruct		2 Men - 1 wk = 10 Man-Days
2. Travel	1,820	
3. Per Diem	460	
4. Manpower	5,600	
5. Shipment	2,600	2,000 lbs @ \$1.30/lb
<u>EQUIPMENT AND HARDWARE:</u>		
1. MUX/CDP Interface	6,500	
2. Transport		} 23,500
3. Controller		
4. DCC Cards		
5. Additional Cables	800	
<u>CONSIGNMENT:</u>	<u>2,000</u>	
TOTAL	55,160	

Enc1 (2) to NRL MEMO
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