C05026194

# Approved for Release: 2024/06/13 C05026194

# OUTGOING NRL SPECIAL PROJECTS CONTROL NUMBER

# BYE-62021-92

dex 1994

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NRL OUTGOING DOCUMENT

SISS ZULU SYSTEM

EQUIPMENT AND INSTALLATION COSTS



F. V. Hellrich 14 January 1971



The cost estimate for the	SISS ZULU
facility is presented in a format which separates fi	
common to all SISS ZULU installations from those var	
dependent on the installation site. This format was	
allow one to easily determine a complete cost estima SISS ZULU facility by crediting or adding costs unique	
particular site. These variable costs generally con	
of transportation charges of personnel and equipment	
installation site. In the case of the	installa-
tion, however, because various pieces of equipment a	re available
from existing systems and will not have to be purcha	
value of the equipment has been credited to the cost for a net cost of the installation.	estimate
for a net cost of the installation.	
Two cost estimates have been determined for the	
installation, because of the unknown	
of equipment which has not been received yet from the	
site. The lower cost estimate is based on the assum	
all the equipment arrives from with no shipmen It should be noted that only 90% of the full new value.	
equipment received from is credited. Approximately	
of the equipment value will be required to align and	calibrate
the used equipment by the NRL instrument repair facil	
installation into the system.	
The higher cost estimate assumes worst case for	the equip
ment not returned from This allows no credit	for the
equipment, as possibly could be the case if the shipp	
been stored on a dock for any period of time.	
·	

The spare parts complement deployed with the system are those items necessary to maintain the system in an operational status at a remote location. It is considered to be the minimum inventory necessary on station at all times.

Spare parts are not itemized, but a 20% of equipment value is assumed based on previous deployment costs.



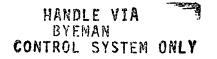


#### I. ANALOG SYSTEM

Α.	Analog	Primary	Position
----	--------	---------	----------

	Rack 100	
1. 2. 3.	Channel A converter WWV/TM Coax. Switch Pre-amp Power Panel	\$ 1,000 70 300
4. 5. 6. 7. 8. 9.	STU System Test Unit (total per site. 2 units and ant.) ACU Auto Control Unit Rec. "O" RS1-A Rec. "2" RS1-A Rec. "S" RS1-A Chalco Photo Elec. Tape Reader	5,000 3,000 10,000 10,000 10,000 500
	Rack 101	
1. 2. 3. 4. 5. 6. 7. 8.	FEL 1 MHZ Standard  1 MHZ Driver  MC-1 Multicoupler  SCU System Calib. Unit  Rec. "4" RS1-A  Rec. "6" RS1-A  Rec. "A" Polarity Switch  RA Racal Receiver	\$ 9,000 2,000 5,000 4,000 10,000 10,000 70 3,000
	Rack 102 .	
11. 12. 13.	Speaker Unit TCG Time Code Generator TCG Battery and Supply Unit S.A. Position Indicator Unit SMP Signal Monitor Model 561A Scope S.A. Servo Control Unit S.A. Manual Command Unit Audio Monitor NPL D to S converter S.A. DC Amp Unit S.A. Servo Amp Unit Model 3A74 Plug In Model 2B67 Plug In	\$ 225 3,500 900 1,000 1,000 1,850 1,000 650 2,000 1,000 1,000 695 250







# Rack 103

11. 12.	View Data Record Monitor Scope (7 channel) TCT Time Code Translator Record Monitor Panel Record Patch Panel Monitor Patch Panel Model 565 Scope Model 3A74 Plug in Unit for 565 Scope Model 5216A Counter Model 204C Osc. PS1 Ant. Polarity Switch Microphone Panel T/M Receiving System Model 3A74 Plug-in	\$ 3,000 3,000 3,000 100 650 1,775 695 3,000 250 4,500 500 9,300 695
1. 2, 3.	Other Primary Position Units  GR 2800 7 Channel Tape Recorder  Equipment racks (4)  Equipment rack hardware  Note: Item 3 includes rack table top,  chassis brackets made at ESD, cable re-  tractors, power strips, blank panels and	\$20,000 900 1,000
4. 5. 6. 7.	cable ties) S.A. Antenna Pedestal Tower (NRL shop made) Taco Antennas (8 per ant.@ \$250 each) Ant. Ped. Conical base and 4 crossarms (NRL shop made) Primary Position Spare Parts Complement.	19,000 2,000 2,000 2,500 35,000
1. 2. 3. 4. 5.	Primary Position Installation Items  Ant. Control Cables (3-22 cond. @ \$1.10/ft. including conn. Ave. runof 250 ft.)  Power Cable, 3Ø control, 5/12 @ 50¢/ft.  Sound Powered Phone Cable. 2 cond. shielded @ 10¢/ft.  Utility Power Cable to Ant. 2 runs Tyrex 3/1 RG-217 RF cable, 3 runs @ 25¢/ft	1,000 150 25 L4 50 200

Primary Position Total

\$213,400

Note: The above total does not include shipping, on site work, cable harness, etc. These items are listed separately)





# B. Analog Secondary Position

$\mathbf{D}$	1-	2	$0^{\circ}$	١
Ka	ck.	_	υl	,

1. 2. 3.	Channel A Converter Pre-amp Power Panel STU System Test Unit - Priced under Primary Position	\$ 1,000 300
4. 5. 6. 7.	ACU Auto Control Unit Rec. "1" RS1-A Rec. "3" RS1-A Rec. "S" RS1-A	3,000 10,000 10,000 10,000
	Rack 201	
1. 2. 3. 4. 5.	1 MHZ Driver MC-1 Multicoupler Rec. "5" RS1-A Rec. "7" RS1-A Rec. "A" Polarity Switch RA Racal Receiver	\$ 2,000 5,000 10,000 10,000 70 3,000
	Rack 202	
9.	<b>-</b>	\$ 225 33,000 1,000 100 1,850 1,000 2,000 650 1,000 1,000 695 250
	Rack 203	
	Record Monitor Panel Monitor Patch Panel Model 565 Scope Model 3Al Plug in for 565 Scope Model 5216A Counter Model 204C Osc. 1 PS1 Antenna Polarity Switch	3,000 3,000 100 3,000 650 1,775 1,400 3,000 250 4,500 695



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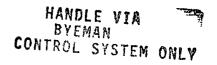
C.	Other Secondary Position Units	
1. 2.	GR 2800 7 Channel Tape Recorder Equipment Racks (4)	\$ 20,000 900
3.	Equipment Rack hardware	1,000
	(Note: Item 3 includes rack table top, chassis brackets made at ESD, cable re-	
	tractors, power strips, blank panels and cable ties)	214,62
4.	S.A. Antenna Pedestal	
5.	Tower (NRL shop made)	2,000
	Taco antennas (8 per ant.@ \$250 each)	2,000
7.	Ant. Ped. Conical base and 4 crossarms	
_	(NRL shop made)	2,500
8.	Secondary Position Spare Parts Complement	<u>30,000</u>
C.	Secondary Position Installation Items	
1.	Ant. Control Cables (3 #22 cond.@\$1.10/ft. including conn.Ave. run of 250 ft.)	\$ 1,000
2.	Power cable, 3\( \text{control}, 5/12 \end{a} 50\( \chi/\text{ft}. \)	150
3.	Sound Powered Phone Cable. 2 cond. shielded	
	@ 10¢/ft.	25 .
	Utility Power cable to Ant. 2 runs Tyres 3/	
5.	RG-217 RF Cables, 3 runs @ 25¢/ft.	200

Secondary Position Total

\$177,335

NOTE: The above total does not include shipping, on site work, cable harness, etc. These items are listed separately)







D.	Analog System Installation Hardware				
1. 2. 3.	System Cable Harness (ESD, 240 manhours) RG 174 Cable (2,000 ft.@.04¢/ft) Connectors for RG 174 cable (600 @ \$1.10	\$	2,500. 1,000		
4. 5.	each) UG 88 Connectors (50 @ 75¢ each) Earphones (4 pair @ \$25 each)		700 40 100		4,430
E.	Analog System Pre-Deployment			٧	4,430
1.	System installation, cabling, de-bugging disassembly Estimate - 2 weeks per side for 2 men or manhours @ \$10/hour		3,200	\$	3,200
F.	Analog System Deployment Installation				
1.	Packing (most is charged to overhead) Plywood On Cite Installation Work Insluding	\$	500		
2.	On Site Installation Work Including Cabling, and de-bugging (4 men - 4 weeks - @ \$150/day per man	-	12,000	\$	12,500
G.	Analog System Spare Units			•	
11.	S.A. Servo Control Unit - 1 ea S.A. Manual Command Unit - 1 ea S.A. D.C. Amplifier - 1 ea S.A. Servo Amplifier - 1 ea S.A. Position Indicator Unit - 1 ea Receiver RS1-A - 2 ea Oscilloscope, Model 561A - 1 ea Plug-In, Model 3A1 - 1 ea Plug-In Model 2B67 - 1 ea Oscilloscope, Model 565 - 1 ea Plug-In Model 3A74 - 1 ea S.A. SCR Power Amplifier - 1 ea	\$	1,000 2,000 1,000 1,000 20,000 1,850 1,400 250 1,775 695 2,000		·
			_	\$	33,970





# II. DIGITAL SYSTEM

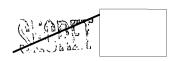
Α.	Digital Hardware		
1. 2.	SEL 810-A Computer and Peripherals Spare parts complement	\$310,000 72,000	
3.	A/DDS Unit including TINS	130,000	
4.	Spare Parts complement	10,600	
	Buffered Tape System	81,000	
	Spare Parts complement	16,000	
	Calculator (2 ea)	10,000	
	Calculator spare parts	1,000	
	Paper shredder	600	
10.	Thermofax Copier	300	\$631,500
			\$631,500
В.	Digital System Pre-Deployment		
1.	System installation, cabling, de-bugging and disassembly		
	Estimate: 4 weeks for 2 men @\$100/day		4,000
C.	Digital System Deployment and Installation		
1.	Packing	1,000	
	<i>_</i>		
2.	On site Installation Work Including Cabling,	-	
2.	On site Installation Work Including Cabling, and de-bugging (4 men - 4 weeks @ 150/day	- -	. 1 . 300
2.	On site Installation Work Including Cabling,	- -	. 1 , <b>)c</b> c \$ 13,000





# III. COMMAND SYSTEM

Α.	Command System Hardware		
1. 2.	Tower, pedestal, mast and arms Antenna, TACO D-1640, 8 ea		
3.		>	\$ 36,000
	Y-SL3-132, 10 ea	1	,
	Y-SL5-132 2 ea	j	
	Y-SL3-132 (RG-71) 2 ea	J	<u>.</u>
4.	Pedestal Junction Box, 1 ea		2,600
5.	Racks (78")		1,375
6. 7.	Tabletop, 1 ea		125 1,800
8.			1,100
9.			5,868
	Converter, 2 ea		2,000
	Programmed Tone Generator, 2 ea		9,200
12.	Jack Panel, 12 positions, 2 ea		100
13.	Receiver, DTS; 2 ea		11,000
	Panel, Local Audio, 2 ea		200
	Electronic Counter, 5244L, 1 ea		3,130
	Electronic Head, 5253B, 1 ea		685
	Electronic Head, 5265A, 1 ea		635
	Speaker, CEI-S9903B, 1 ea Discriminator, GFD-5, 6 ea		225 4,200
	Filter, TU/L/, 6 ea		4,200
			1,000
22.	Module (Mod.), GMA-3, 1 ea Time Code Translator, 3200-222, 1 ea		3,200
	Recorder, HP-7702, 1 ea		1,800
24.	Recorder, Preamp. 8801-A, 2 ea		550
25.	Recorder, Paper, #651-52, 50 ea		700
26.	Oscilloscope, RM564, 1 ea		1,300
	Oscilloscope Head 3A6, 1 ea		650
	Oscilloscope Head 3B3, 1 ea		680
	Card Punch, 1 ea		125
	Card File, 1 ea Panel Coupler, 1 ea		20 300
	Cables		1,000
	Bi-Dir. Pwr. Monitor 43, 1 ea		80
	Irig. Calibrator, SCF-21, 1 ea		2,450
35.	Coax. Load Res., 8135, 1 ea		125
	Sync. & Monitor, 4002A, 1 ea		
	Simulator, 1 ea		
	Display, 4528, 1 ea		35,000
	Word Selector, 4228, 1 ea		22,000
	Bit Synchronizer, GPS-5, 1 ea /		4 000
	Lite Data Panel, 1 ea Scaler		4,000
44.	ocater		4,000





# III. COMMAND SYSTEM (Cont'd)

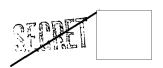
Α.	Command System Hardware (Cont'd)				
	Permapaper-#651-52, 100 ea Crystals1875, 1 ea	\$	500		
	.2000, 1 ea .3250, 1 ea		60		
	Hybrid, HEW-50, 1 ea Probe P6028, 2 ea		405 35		
	Spare Parts Complement, 1 ea	_27_	000	ċ1,	SE 673
				ŞΤ	65,673
В.	Command System Predeployment				
1.	System installation, cabling, debugging and disassembly. Estimate I man 2 weeks				
	@ \$100/day			\$	1,000
C.	Command System Deployment and Installation				
1.	Packing		500		<b>30</b> 0
2.	On site Installation (including cabling, and debugging - estimate 5 men - 2 weeks @ \$150				
	per man)	\$ _7	,500		2 000
				Ş	8,000



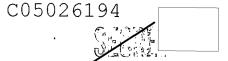


# IV. Q. C. SYSTEM

Α.	Q. C. Hardware		
1. 2. 3. 4. 5. 6. 7. 8. 910. 112. 13. 14. 15. 16. 17. 18. 22. 23. 24. 25. 26. 27. 28.	Table & Mod., 1 ea Table, 5 cabinets, panels, 5 + 6 P. Distribution AMP Disc Input Control, 1 ea Audio Monitor, 1 ea IDR Disc Recorder, 1 ea HP Counter, 5233, 1 ea ESL Synthesizer, 1 ea Brusher Recorder, 1 ea Speaker, 1 ea Time Code Trans, 1 ea Tek. Time Mark Gen, 1 ea VR 2800 Tape Recorder, 1 ea Sharp Calculator, 1 ea Tek 565 Oscilloscope, 1 ea 3Al Plug-In, 2 ea Cable Assembly, 1 set Panel Engraving, 1 set BNC Connectors, 100 ea Synthesizer Ref. INRT, 1 ea Remote Control, 1 ea AC Power Outlet, 1 ea 565 Modification, 1 ea Ear phones, 1 ea HP Counter, 1 ea HP Oscillator, 1 ea HP Oscillator, 1 ea Camera, Polaroid, CU5, Regatsser	\$ 150 1,100 2,000 1,000 500 18,000 2,300 8,900 8,525. 250 2,935 720 20,000 350 1,750 1,500 2,365 150 300 100 150 25 25 25 25 2,300 345 625 435 1,200 15,000	
в.	Spare Parts Complement Q.C. System Predeployment	137000	\$93,025
1.	System Assembly, cabling, debugging and disassembly - Estimate 4 days, 2 men @ \$100/man day		\$ 800
C. 1. 2.	Q.C. System Deployment  Packing On Site Installation (including cabling and debugging - estimate 2 days, 2 men @ \$150/man day	\$ 500 _600	ė 1 100
			\$ 1,100



10



#### V. MAINTENANCE EQUIPMENT

Α.	Analog Maintenance Equipment		
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	Oscilloscope, H-P Model 180A, 1 ea  Vert. Amp Plug-In H-P Model 1801A, 1 ea  Time base Plug-In H-P Model 1821A, 1 ea  VHF Signal Generator H-P Model 608D, 1 ea  Frequency Counter, H-P Model 5245L, 1 ea  Prescaler Plug-In H-P, Model 5252A, 1 ea  Digital Voltmeter, H-P, Model 3430A, 1 ea  AC Voltmeter, H-P, 400E, 1 ea  Pulse Generator, Antekna Model 1210, 1 ea  Mixer H-P Model 10514A, 1 ea  Receiver Test Unit, NRL TB-1B, 1 ea  Micro Watt Meter, Boonton Elect. 41A-R, 1 ea  RF Sweep Generator, Telonic HD-3, 1 ea  Attenuator, Telonic, Model TAD-50A, 1 ea  RF Amplifier, HP-461A, 1 ea  Power Supply, Power Designs Model 2005, 1 ea  Power Supply, HP Model 6215A, 1 ea  Boonton FM Generator, 202H, 1 ea  Miscellaneous Tools, equipment, facilities  Spare Parts Complement	895 3695 3800 1,500 2,480 685 595 335 1,225 100 3,000 750 1,010 400 350 330 90 1,500 5,000 3,000	\$ 24 <b>,</b> 740
В.	Digital Maintenance Equipment		
22. 23. 24. 25. 26.	Oscilloscope, HP Model 180A, 1 ea \$ Vertical Amplifier HP Model 1801A, 1 ea Differential Comparator, HP Model 1803A, 1 ea 4 Channel Amplifier, HP Model 1804A, 1 ea Time Base, HP Model 1821A, 1 ea Probe, Miniature, HP Model 10004A, 2 ea @40 Probe, Miniature, HP Model 10006A, 4 ea @ 40 Probe, Miniature, HP Model 10005A, 2 ea	1,050 800 80 160	
	<b>a</b> 40	80	



29. Probe, Current, HP Model 1110A, 1 ea

32. Testmobile, HP Model 1117B, 1 ea

34. Oscillator, HP Model 651B, 1 ea

39. Strobotac, GR Type 1531-AB, 1 ea

33. Drawer, HP Model 10475A, 1 ea

30. Extender, Plug-In, HP Model 10407A, 1 ea 31. Hood, Viewing, HP Model 10176A, 1 ea

35. Voltmeter, digital, HP Model 3430A, 1 ea

37. Vacuum Cleaner, GE Model P3MU-1, 1 ea

38. Vacuum cleaner, FSN 7910-720-5541, 1 ea

36. Counter, Electronic, HP Model 5216A, 1 ea

HANDLE VIA
BYEMAN
CONTROL SYSTEM ONLY

100

200

4.0

590

595

985

45

200

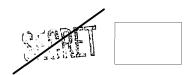
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# V. MAINTENANCE EQUIPMENT (Cont'd)

В.	Digital Maintenance Equipment (Cont'd)				
41. 42. 43. 44. 45.	Variac, GR Type WlOWT3A, 1 ea Punching Machine, GBC Model #121KM, 1 ea Pulse Generator, Antekna Model 1210, 1 ea Books Miscellaneous tools, equipment, facilities Oscilloscope and cart, Tektronix 454 Spare parts complement		136 250 1,225 500 5,000 3,100 2,000	¢2.0	006
. <b></b>				\$20	,086
C.	Maintenance Equipment Predeployment				
1.	Inventory and packing of all spare parts - 1 man 5 days @ 100/day			\$	500
D.	Maintenance Equipment Deployment and Instal	lat	ion		
	Packing On Site Installation Work Including Installation and de-bugging (1 man	\$	500		,
	5 days @ \$150/day)		250	\$·1	,250





# VI. TOTAL FIXED COSTS

Primary Position Secondary Position Spare Units Installation Hard-deployment Deployment and			
Total	Analog System Fixed Cost	s	\$444,745
Digital System Pre-deployment Deployment and	Costs	\$631,500 4,000 13,000	
Total	Digital System Fixed Cos	ts	\$648,500
Command System Pre-deployment Deployment and	Costs	\$165,673 1,000 8,000	
Total	Command System Fixed Cos	ts	\$174,673
Q.C. System Har Pre-deployment Deployment and	Costs	\$ 93,025 800 1,100	
Total	QC System Fixed Costs		\$ 94,925
Digital Mainter Analog Maintena Pre-deployment Deployment and	ance Hardware Costs	\$ 20,086 24,740 500 1,250	
Total	Maintenance Fixed Costs		\$ 46,576
ጥንጥልτ.	SYSTEM FIXED COSTS	\$1,409,41	9
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# VII. VARIABLE COSTS

	V pin air •	V. 11(111)	<b>31</b> 0	0010		
Α.	Transportation to					
1.	Personnel - Digital \$150, - Analog \$150, - Q.C. - Maintenance - Command	/man inc	ital	\$ d in and	750 750	
2.	Equipment - Digital - Analog - Q.C Maintenance - Command	exc.		e van ve use te	700	\$ 2,200
В.	Equipment Available from					
	Equipment Full Val	Lue Qt	ΞY	Ext Cost.	Credi	t Value
1.	Speaker Unit 225	4	ea	900	8	10
2.	Time Code Gen. 3,500	1	ea	3,500	3,1	50
3.	TCG Battery & Sup. 900	1	ea	900	8	10
4.	S.A. Position Ind.1,000	2	ea	2,000	1.,8	00
5.	Oscilloscope,					
	Mod. RM561 1,850	3	ea	5,558	5,0	02
6.	S.A. Cont. Unit,			•	•	
•	Servo 1,000	3	ea	3,000	2,7	00
7:	S.A. Cmd. Unit,	Ŭ	- Cu	3,000	-,,	7 0
, •	Manual 2,000	3	ea	6,000	5,4	0.0
0	S.A. DC Amp. Unit 1,000		ea	3,000	2,7	
8.		3	ea	3,000	2,1	00
9.	S.A. Servo Amp	2		2 000	2 7	00
10	Unit 1,000		ea	3,000	2,7	
	Mod. 3Al Plug-In 1,400		ea	5,600	5,0	
	Mod. 2B67 Plug-In 250	3	ea	750	6	<b>7</b> 5
12.	Record Monitor	_				
	Scope 3,000	2	ea	6,000	5,4	00
13.	Time Code Trans-					
	lator 3,000		ea	15,000	13,5	
14.	Scope, Mod 565 1,775	3	ea	3,550	3,1	95
15.	Recorder, CEC					
	2800 20,000	3	ea	60,000	54,0	00
16.	S.A. Antenna	,				
	Pedestal 19,000	2	ea	38,000	34,2	00
17.	S.A. SCR Power					
	Amp. 2,000	1	ea	2,000	1,8	00
18.	Plug-In, Mod			•	•	
	3A74 695	6	ea	4,170	3,7	53
				•	•	





VII. VARIABLE COSTS (Cont'd)

				` ,		
В.	Equipment Availa	ble from		(Cont'd)		
, · .	Equipment	Full Value	Qty	Ext Cost	Credit Va	alue
10°	Frequency Counter	r				
1 J •	HP 5245L	<b>2,</b> 480	2 ea	4,960	4,464	
20.	Sweep Gen.	2,100		1,500	1,104	
•	Telonic HD3	1,010	l ea	1,010	909	
21.	Power Supply	·		·		
·	HP 6215A	90	l ea	90	81	
22.	Oscillator, HP					
	651B	590	l ea	590	531	
23.	Vacuum Cleaner					
	FSN 7910-720-		_		• • •	
2.4	5541	200	l ea	200	180	
	Degausser	1,200	l ea	1,200	1,080	
	Camera IID 5222	435 2,300	l ea	2 200	392	
	Counter, HP 5233 Oscillograph,	2,300	l ea	2,300	2,070	
2/.	brush, 16-2300	8,525	l ea	8,525	7,763	
28.	Generator, Time	0,323	ι εα	0,323	7,705	
20.	Mark	720	l ea	720	64.8	
29.	Converter, Fre-	, _ 0	<u>.</u>	, 0	کریا ت	
	quency HP 5253B	635	l ea	635	<u>572</u>	
	<u> </u>					\$165,235
		•				
C.	Equipment Availal	ole from				
1.	SEL 810A Com-	•				
_,	puter and Peri-					
		310,000	l ea	310,000	3 <b>00,</b> 000	
2.	Spare parts	•		·	•	
	complement	10,000	l ea	10,000	10,000	
D.	Transportation of	f Equipment	from			4,500
_					7 '	
Ε.	Project Director			nating all of		



HANDLE VIA

BYEMAN
CONTROL SYSTEM ONLY

6,000

receiving, inventory checking, assembly, disassembly, deployment, coordinating with station - 1 man 2 mos.

VIII. TOTAL INSTALLED SISS ZULU SYSTE	M COST -				
(Full credit for outsta	nding equipment)				
Total System Fixed Costs	\$1,409,419				
Transportation to	2,200				
Equipment value available from	redit) -165,235				
Equipment value available from (credit) -310,000					
Transportation of Equipment from 4,500					
Project Director/Management6,000					
Total Net SISS ZULU System Deplo	yment Cost \$946,884				
(No damage to returned equipme)					



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IX. TOTAL INSTALLED SISS ZULU	J SYSTEM COST -				
(No credit for outstand	ling equipment from				
Total System Fixed Costs	\$1,409,419				
Transportation to	2,200				
Equipment value available from	redit) =20,000				
Equipment value available from(credit)-310,000					
Transportation of equipment from 4,500					
Project Director/Management 6,000					
Total Net SISS ZULU System I					
(No credit for outstanding	equipment)				



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