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~~CHIGOE/IDEALIST~~

BYE-2121-66

cy 6 of 8

21 JAN 1966

MEMORANDUM FOR: ORD
SUBJECT : CHIGOE Operating Cost Estimate
REFERENCE : ORD 205-66, 14 Jan 1966, subj: DD/S&T
Direction on CHIGOE

(b)(3)

1. In response to your memorandum, referenced above, the attached preliminary estimate is forwarded.

2. Please note that this is based on the assumption that CHIGOE will be funded within the Agency and that the costs of sensor procurement, sensor spares and test equipment, and modification of additional airframes are not included.

3. Operating costs are based on using SP2H aircraft; but this may not be the most appropriate or most economical airframe to use in an operational environment.

(Signed)

fn JACK C. LEDFORD
Brigadier General, USAF
Director, Special Activities

(b)(3)

Attachment: Preliminary Cost Estimate

GROUP 1
Excluded from automatic
downgrading and
declassification

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PS/OSA:WASeward/cec:4526:21 January 1966

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ATTACHMENT TO
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ASSUMPTIONS

1. OSA will support CHIGOE in the test phase through completion of the "proof of concept".
2. OSA will operate CHIGOE in the operational phases.
3. "Proof of concept" ends at the completion of the final overseas test phase when the analysis and evaluation is ready for presentation to the Agency and DOD.
4. One SP2H aircraft will be modified as a "proof of concept" test bed.
5. The test bed SP2H will be used as the first operational aircraft.
6. The airframe to be used for full operational employment by OSA will be determined not later than the end of the operational environment test phase (completion of overseas tests).
7. CHIGOE will be an Agency asset funded through DD/S&T.
8. CHIGOE security will be controlled by OSA Security Staff and entry into the BYEMAN system is not contemplated.
9. U. S. Navy support for airframe and engine spares will be required at the modification facility and at each overseas test site.
10. OSA will use contract flight crews and contract maintenance support for the operational phase.
11. The first OSA flight crew will participate in the "proof of concept" flight tests.
12. In the interest of achieving economy in the employment of CHIGOE, this capability should be integrated into the IDEALIST Detachment at Edwards Air Force Base.
13. Preliminary concept:
 - a. Base in Z. I. and deploy to operational sites overseas.
 - b. Initial operational capability will be one aircraft.

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c. Four aircraft will provide a one-deployment capability.

d. Six aircraft will provide a two-deployment capability.

e. Ten aircraft will provide a three-deployment capability with a Z. I. back-up and product improvement/modification capacity.

f. Project-controlled communications will be required at all test sites.

14. A full-time CHIGOE Project Officer is required in OSA.

15. Activity level:

a. Single deployment capability will do three operations per year.

b. Double deployment capability will do six operations per year.

c. Triple deployment capability will do ten operations per year.

d. Each operation is planned for thirty days duration.

e. Each operation requires four round trips for couriers.

f. Seventy people per deployment site.

16. As an Agency-funded project, CHIGOE will have to reimburse DOD for airlift at current special assignment airlift rates.

17. Spare parts and test equipment for sensor systems are assumed to be included in sensor purchase prices.

18. Air crews should be hired at basic salaries according to the air crew position and then allow for risk bonuses for periods of liability for overflight activity.

19. Rather than to establish our own flight test support structure, we should seek maximum support from the Navy to support the test phases.

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PERSONNEL REQUIREMENTS

BASIC

<u>GRADE</u>	<u>POSITION</u>	<u>FLT</u>	<u>TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
	Air Crew						
CONT	Pilot	1	15K	2 30K	5 75K	7 105K	10 150K
"	Co-pilot	1	15K	1 15K	5 75K	8 120K	8 120K
"	Navigator	1	12K	2 24K	4 60K	7 84K	10 120K
"	Systems Monitor	1	10K	2 20K	4 40K	7 80K	10 100K
"	Observer	1	10K	1 10K	4 40K	7 80K	10 100K
"	Flight Maintenance	1	10K	1 10K	5 50K	7 70K	9 90K
		6	72K	9 109K	27 340K	43 539K	57 680K
	Headquarters						
MAJ	Project Officer	1	12K	1 12K	1 12K		
MAJ	Operations Officer			1 12K	1 12K	2 24K	2 24K
CAPT	Flight Planner			1 10K	1 10K	2 20K	3 30K
GS-13	Security Officer	1	13K	1 13K	1 13K	1 13K	2 26K
GS-5	Operations Clerk		5K	5K	1 5K	2 10K	2 10K
CAPT	Supply Officer					1 10K	1 10K
MAJ	Materiel Officer					1 12K	1 12K
GS-12	Contracts					1 11K	1 11K
GS-13	Programs					1 13K	1 13K
GS-12	B&F						1 11K
		2	30K	4 52K	5 52K	11 113K	14 147K

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PERSONNEL REQUIREMENTS

BASIC

<u>GRADE</u>	<u>POSITION</u>	<u>FLT TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
	Command					
LT COL	Commander				1 14K	1 14K
T/SGT	Clerk				1 6K	1 6K
					2 20K	2 20K
	Administration					
GS-13	Chief				1 13K	1 13K
S/SGT	Clerk				1 6K	1 6K
GS-10	Finance					1 9K
GS-10	Personnel					1 9K
					2 19K	4 37K
	Operations					
LT COL	Operations Officer		1 14K	1 14K	1 14K	1 14K
MAJ	Asst. Ops Officer			1 12K	2 24K	3 36K
S/SGT	Operations Clerk		1 6K	2 12K	3 18K	4 24K
CAPT	Flight Planner				2 20K	2 20K
S/SGT	Flight Records				1 6K	1 6K
MAJ	Intelligence Officer				1 12K	1 12K
GS-9	Intelligence Clerk		1 8K	1 8K	2 16K	3 24K
T/SGT	Photo Interpretator		1 6K	1 6K	2 12K	3 18K
T/SGT	Personnel Equipment		1 6K	2 12K	3 18K	4 24K
			5 40K	8 64K	17 140K	22 178K

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<u>GRADE</u>	<u>POSITION</u>	<u>FLT</u>	<u>TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
Materiel & Maintenance							
LT COL	Chief of M&M						1 14K
T/SGT	Clerk						1 6K
MAJ	Maintenance Officer				1 12K	1 12K	1 12K
A1C	Clerk				1 6K	2 12K	2 12K
A1C	Maintenance Control						1 6K
A1C	Maintenance Reports					1 6K	1 6K
CAPT	Supply Officer						1 10K
A1C	Clerk				1 6K	2 12K	3 18K
A1C	Records					1 6K	1 6K
A1C	Shipping						1 6K
A1C	Warehouse Tech				1 6K	1 6K	5 30K
CAPT	POL Officer						1 10K
T/SGT	POL Tech				2 12K	3 18K	3 18K
					6 42K	11 72K	22 154K
Ground Crews							
CONT	Line Chief						1 15K
"	Crew Chief			1 13K	4 52K	6 78K	10 130K
"	Airframe Mech			2 24K	6 72K	9 108K	12 144K
"	Engine Mech			2 24K	6 72K	9 108K	15 180K
"	Jet Engine Mech			1 12K	4 48K	6 72K	8 96K
				6 73K	20 244K	30 366K	46 565K
Communications							
GS-12	Chief			1 11K	1 11K	2 22K	3 33K
GS-11	Elect. Tech	1 9K		1 9K	1 9K	2 18K	3 27K
GS-9	WET	1 8K		1 8K	1 8K	2 16K	3 24K
GS-9	CTR	2 16K		3 24K	3 24K	6 48K	9 72K
GS-8	CTC	2 14K		3 21K	3 21K	6 42K	9 63K
		6 47K		9 73K	9 73K	18 146K	27 219K

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<u>GRADE</u>	<u>POSITION</u>	<u>FLT TEST</u>		<u>1 A/C</u>		<u>4 A/C</u>		<u>6 A/C</u>		<u>10 A/C</u>	
	Security										
GS-13	Security Officer			1	13K	1	13K	2	26K	3	39K
GS-12	Security Officer							1	11K	2	22K
GS-7	Courier			1	7K	2	13K	2	13K	3	19K
GS-5	Guards			5	25K	7	35K	11	55K	15	75K
				7	45K	10	61K	16	105K	23	155K
	Tech Reps										
CONT	FLIR	1	25K	1	25K	1	25K	2	50K	3	75K
"	TV	1	25K	1	25K	1	25K	2	50K	3	75K
"	Magnetometer					1	25K	2	50K	2	50K
"	SLR			1	25K	2	50K	3	75K	4	100K
"	INS			3	75K	6	150K	9	225K	12	300K
"	SD-5 (IR)			1	25K	2	25K	2	50K	3	75K
"	Cameras										
		2	50K	7	175K	13	300K	20	500K	29	675K
	Specialists										
"	Prop. Spec.			2	24K	4	48K	6	72K	8	96K
"	Painter							1	9K	1	9K
"	Machinist					1	10K	2	20K	2	20K
"	Welder			1	10K	1	10K	1	10K	1	10K
"	Structural Repair			1	10K	1	10K	2	20K	2	20K
"	Pneudraulic Spec.			1	10K	2	20K	3	30K	4	40K
"	Instrument Spec.			1	10K	2	20K	3	30K	4	40K
"	Auto Pilot			1	12K	2	24K	3	36K	4	48K
"	Elect. Systems			1	12K	2	24K	3	36K	4	48K
"	Air Radio Maint.			1	10K	2	20K	3	30K	4	40K
"	Air Radar Maint.			2	20K	3	30K	4	40K	5	50K
"	ECM Maint.			1	12K	3	36K	4	48K	5	60K
"	Ordnance			2	16K	3	24K	4	32K	5	40K

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<u>GRADE</u>	<u>POSITION</u>	<u>FLT TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
	(Specialists Continued)					
CONT	Ground Power		1 10K	2 20K	3 30K	4 40K
"	Computer Spec.		1 13K	2 26K	4 52K	5 65K
"	Photo Maintenance		1 12K	3 36K	5 60K	7 84K
"	Electrician		1 10K	2 20K	3 30K	4 40K
			18 191K	35 378K	54 585K	69 750K

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CONSOLIDATED PERSONNEL LISTS

	<u>FLT TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
Headquarters	2	4	5	1	14
Air Crew	6	9	27	43	57
Field Units					
Command				2	2
Admin				2	4
Operations		5	8	17	22
Materiel & Maintenance			6	11	22
Ground Crew		6	20	30	46
Communications	6	9	9	18	27
Security		7	10	16	23
Tech Reps	2	7	13	20	27
Specialists		18	35	54	69
	16	65	133	224	313

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PERSONNEL COST ESTIMATE

	<u>FLT TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
Headquarters	30K	52K	52K	113K	147K
Air Crew	72K	109K	340K	539K	680K
Field Units					
Command				20K	20K
Admin				19K	37K
Operations		40K	64K	140K	178K
Materiel & Maintenance			42K	72K	154K
Ground Crew		73K	244K	366K	565K
Communications	47K	73K	73K	146K	219K
Security		45K	61K	105K	155K
Tech Reps	50K	175K	300K	500K	675K
Specialists		191K	378K	585K	750K
	199K	758K	1554K	2605K	3580K

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AIRCRAFT & SUPPORT COST ESTIMATES

	<u>FLT TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
Aircraft Support					
Initial Spares & Ground Support	1500K	1500K	1500K	1500K	1500K
1. Deployment Capability			1500K		
2. Deployment Capability				2500K	
3. Deployment Capability					4500K
SUB-TOTAL	1500K	1500K	3000K	4000K	6000K
Spares Consumption	29K	58K	233K	350K	583K
Spare Engines					
Recip.	75K	75K	300K	450K	750K
Jet	125K	125K	500K	750K	1250K
Engine Overhaul					
Recip.		5K	10K	15K	25K
Jet		7K	14K	21K	35K
IRAN and Modification		180K	370K	740K	1110K
Fuel	15K	16K	25K	50K	84K
	1744K	1966K	4452K	6376	9837K

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	<u>FLT TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
Communications					
TWX Facility	10K				
Operational Stations		396K	396K	792K	1188K
TOTAL	10K	396K	396K	792K	1188K
Travel					
Staff Travel	3K	3K	5K	6K	8K
Deployments	82K	147K	147K	294K	490K
Courier Trips		24K	24K	48K	80K
Per Diem	19K	53K	101K	202K	336K
TOTAL	104K	227K	272K	544K	906K

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CONSOLIDATED COST ESTIMATE

	<u>FLT TEST</u>	<u>1 A/C</u>	<u>4 A/C</u>	<u>6 A/C</u>	<u>10 A/C</u>
PERSONNEL	199K	758K	1554K	2605K	3580K
AIRCRAFT SUPPORT	1744K	1966K	4452K	6376K	9837K
COMMUNICATIONS	10K	396K	396K	792K	1188K
TRAVEL	104K	227K	272K	544K	906K
TOTAL	2057K	3347K	6674K	10317K	15511K

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