

BAF D-15a 1971

PROGRAM 10662

1 July 1971

BYE-15804-71

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EXCLUDED FROM AUTOMATIC DOWNGRADING;
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BYE-1550A-71

REVISED FY 1972 FINANCIAL PROGRAM
PROJECT GAMBIT

Schedule	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977
	4	4	4	3	2	2
			<u>Defined</u>	<u>Undefined</u>	<u>Total</u>	
<u>SAFSP WHITE</u>						
<u>RDY&E - 3600</u>						
Improved Roll Joint			.084	0		.084
HIGHERBOY 1 & 2			.217	0		.217
Extended Life			.828	0		.828
Subtotal			1.129	0		1.129
<u>MISSILE PROCUREMENT - 3020</u>						
Spacecraft			37.427	4.800		42.227
Booster Hardware			17.598	.951		18.549
Command Subsystems			3.466	1.077		4.543
Recovery Vehicle			4.722	.600		5.322
HIGHERBOY 1 & 2			.221	0		.221
Extended Life			.230	0		.230
Subtotal			63.664	7.428		71.092

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REVISED FY 1972 FINANCIAL PROGRAM
PROJECT GAMBIT
(Contd)

	<u>Defined</u>	<u>Undefined</u>	<u>Total</u>
<u>SAFSP WHITE - Contd</u>			
<u>OTHER PROCUREMENT - 3080</u>			
Booster Launch	6.202	0	6.202
Booster SE/TD	.796	0	.796
BTL Guidance	1.250	0	1.250
Agena Launch	2.500	0	2.500
Support Services	.200	0	.200
Mission Planning	.423	.050	.473
Aerospace	<u>1.960</u>	<u>0</u>	<u>1.960</u>
Subtotal	13.331	.050	13.381
TOTAL SAFSP WHITE	78.124	7.478	85.602
<u>SAFSP BLACK</u>			
<u>RD2AE - 3600</u>			
Improved Roll Joint	.157	0	.157
HICHEROY 1 & 2	.298	0	.298
FPS Tests	<u>.322</u>	<u>0</u>	<u>.322</u>
Subtotal	.777	0	.777

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REVISED FY 1972 FINANCIAL PROGRAM
PROJECT GAMBIT
(Contd)

	<u>Defined</u>	<u>Undefined</u>	<u>Total</u>
<u>SAFSP BLACK - Contd</u>			
<u>MISSILE PROCUREMENT - 3020</u>			
PAS/Roll Joint	2.095	.300	2.395
Recovery Vehicle	.902	.200	1.102
Bit Boxes	.378	0	.378
Payload	31.271	1.800	33.071
Improved Roll Joint	.192	0	.192
HIGHERBOY 1 & 2	.502	0	.502
Subtotal	35.340	2.300	37.640
TOTAL SAFSP BLACK	36.117	2.300	38.417
TOTAL PROGRAM	114.241	9.778	124.019

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REVISED FY 1973 BUDGET ESTIMATE
REVISED FY 1974-1977 PLANNING ESTIMATES
PROJECT GAMBIT

Schedule	<u>FY 1972</u>	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>
4		4	4	3	2	2
		<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>

SAFSPRD&E - 3600

Extended Life	1.372	1.667	.556	0	0
Multiboy	<u>11.927</u>	<u>.300</u>	<u>0</u>	<u>0</u>	<u>0</u>
Subtotal	13.299	1.967	.556	0	0

MISSILE PROCUREMENT - 3020

Spacecraft	27.697	32.671	43.868	39.621	38.277
Booster Hardware	19.114	16.796	14.664	12.826	13.438
Command Subsystem	4.824	3.688	4.595	3.645	4.202
Recovery Vehicle	6.850	6.455	6.792	5.894	5.287
PAS/Roll Joint	2.313	3.116	4.229	3.595	3.397
Bit Boxes	.422	.335	.264	.267	.271
Payload	25.850	27.274	39.469	34.566	31.958
Extended Life	0	.520	1.054	1.067	1.081
Improved Roll Joint	.256	.192	.128	.128	.128
Multiboy	<u>0</u>	<u>.654</u>	<u>1.258</u>	<u>1.258</u>	<u>1.258</u>
Subtotal	87.326	91.701	116.321	102.867	99.297

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PROJECT GAMBIT
 REVISED FY 1973 BUDGET ESTIMATE
 REVISED FY 1974-1977 PLANNING ESTIMATES
 (Contd)

	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>
<u>SAFSP - Contd</u>					
<u>OTHER PROCUREMENT - 2080</u>					
Booster Launch	6.179	6.354	6.354	4.354	6.354
Booster SE/ID	1.239	1.302	1.365	1.428	1.491
BTL Guidance	2.538	2.670	2.848	2.599	2.939
Agenda Launch	2.808	2.851	3.714	3.289	3.333
Support Services	.200	.200	.200	.200	.200
Mission Planning	.784	.794	.805	.814	.824
Aerospace	2.419	2.542	2.665	2.788	2.911
Subtotal	16.167	16.713	17.951	15.472	18.052
TOTAL PROGRAM	116.792	110.381	134.828	118.339	117.349

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REVISED FY 1972 FINANCIAL PLAN
REVISED FY 1973 BUDGET ESTIMATE
REVISED FY 1974-1977 PLANNING ESTIMATE
PROJECT GAMBIT
NARRATIVE

1. AEROSPACE: The basic GAMBIT and Titan Aerospace requirements in FY 1972 reflect the current approved program (BYE-12841-71). In FY 1973 and thereafter, the MPS levels are programmed at the previously submitted 41 and 21 MPS/year, respectively.
2. ESCALATION: Escalation has been included on new procurements only at the rates stated in WHIG 0668 except for Aerospace. Aerospace is programmed at the following rate/MPS/year:

FY 1973	\$.059
FY 1974	.062
FY 1975	.065
FY 1976	.068
FY 1977	.071
3. SCHEDULE: The GAMBIT costs are based on immediate implementation of the revised extended schedule on the current buys. Any delay in contractual action implementing this schedule will result in the contractors continuing to work toward and incur costs against the present compressed schedule and will result in increased costs over those reflected in this revised submission. This submission continues to exclude costs for schedule adjustments to back up HEXAGON, submitted separately.
4. RECOVERY VEHICLES: The FY 1972 revised submission reflects correction of an error made in these line items in the April 1971 submission (BYE-15710-71).
5. MULTIEOY: Costs reflected are based on in-house estimates and consider commonality between GAMBIT and Project 10662 developments. It is assumed that the GAMBIT developments would be implemented in series following

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EYE-15710-71

the basic 10662 efforts and would be effective Vehicle #48. In the event these would have to be performed in parallel or implemented on earlier vehicles, it is highly probable that the costs would be incurred earlier.

6. EXTENDED LIFE: Revised costs reflect commonality with Project 10662 and assume implementation in series with effectivity on Vehicle #48. In the event these would have to be pursued in parallel or implemented on earlier vehicles, it is highly probable that the costs would be incurred earlier.

7. COMMONALITY: A detailed review of other developments being pursued under Project 10662 will be made to determine potential application to GALEIT. Costs for implementation of such developments, except those common to Multiboy and extended life, are not included in this submission.

8. UNDEFINED: Undefined requirements remain as submitted in EYE-15710-71 except for the payload. The potential rate overrun in this line item has been eliminated. The potential overrun in the Command Subsystem line item has been reduced to \$.477 million in consonance with the contractor's proposal and is currently being definitized.

9. BOOSTER: Booster costs are as submitted by the Titan SPO. Credit for pad sharing with Programs POPPI and [] in fiscal years 1973-1976 has been applied to GALEIT.

10. FOLLOW-ON PROCUREMENTS: The schedule slip results in the delay of a follow-on procurement of Vehicle #48 and on by approximately one year. Minor costs will now be incurred in FY 1974 with major expenditures in FY 1975.

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REVISED FY 1973 BUDGET ESTIMATE
 REVISED FY 1974-1977 PLANNING ESTIMATES
 PROJECT GAMBIT
 ECONOMIC ESCALATION RECAP

	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>
RDTRF	.048	.105	.050	0	0
MISSILE PROCUREMENT	.044	.684	3.163	5.108	6.354
OTHER PROCUREMENT	<u>.292</u>	<u>.551</u>	<u>1.164</u>	<u>1.376</u>	<u>1.865</u>
TOTAL	.382	1.340	4.377	6.484	8.219

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BOOSTER RECAPITULATION
PROJECT GAMBIT - TITAN-III-B

Program Vehicle Number	Proposed Booster Vehicle Number	Booster Delivery Current	Booster Delivery Required	Planned Launch Date	Booster Procurement Status
32	32	-	-	Jul 71	On Hand
33	33	Jun 71	Jul 71	Nov 71	On Contract
34	34	Aug 71	Nov 71	Feb 72	On Contract
35	35	Oct 71	Feb 72	May 72	On Contract
36	39	Jan 72	May 72	Aug 72	On Contract
37	40	Mar 72	Aug 72	Nov 72	On Contract
38	41	May 72	Nov 72	Feb 73	On Contract
39	43	Jan 73	Feb 73	May 73	On Contract
40	44	Mar 73	May 73	Aug 73	On Contract
41	45	Jun 73	Aug 73	Nov 73	On Contract
42	47	Nov 73	Nov 73	Feb 74	On Contract
43	49	Apr 74	Feb 74	May 74	On Contract
44	51	-	May 74	Sep 74	Pend Negotiation
45	54	-	Sep 74	Jan 75	Pend Negotiation
46	56	-	Jan 75	May 75	Pend Negotiation
47	58	-	May 75	Sep 75	-
48	60	-	Sep 75	Apr 76	-
49	65	-	Apr 76	Sep 76	-
50	66	-	Sep 76	Apr 77	-

Excludes Higherboy expenditures to back up HEXAGON in CY 1972 (CHANGE 1334 and CHANGE 2210)

Proposed Booster Vehicle Numbers are tentative. Reassignment of vehicles to all SAFSP programs and to all done following 10662 and revised GAMBIT approvals such that the smoothest production schedule is maintained.

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SECTION II

SUMMARY
FY 1972 FINANCIAL PLAN
FY 1973 BUDGET ESTIMATE
FY 1974-1977 PLANNING ESTIMATES
PROJECT 10662
CONTINUING PROGRAM

FY 1972 FY 1973 FY 1974 FY 1975 FY 1976 FY 1977 FY 1978 FY 1979

Schedule

2 3 2 2 2

FY 1972 FY 1973 FY 1974 FY 1975 FY 1976 FY 1977 Total

SAFSP - 3600

Booster	.500	.832	.207	0	0	0	1.539
Booster Engine Upgrade	3.820	4.840	0	0	0	0	8.660
Bit Boxes	.300	1.036	0	0	0	0	1.336
Payload	72.360	55.450	14.750	0	0	0	142.560
Spacecraft	34.000	11.800	3.600	1.500	0	0	50.900
PAS/Roll Joint	3.100	2.000	.400	0	0	0	5.500
SCF-STC Software Development	.200	.800	0	0	0	0	1.000

Subtotal

114.280	76.808	18.957	1.500	0	0	0	211.545
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SAFSP - 3020

Booster Hardware	2.673	8.755	17.538	16.244	11.544	9.073	65.827
Core Engines	1.000	1.600	1.400	0	0	0	4.000
Bit Boxes	.100	.636	.543	0	0	0	1.279
CEC	0	0	.700	.720	.370	.375	2.165
Crypto Equipment	0	.651	1.259	.765	.776	.766	4.233
COMI Targets	0	0	.207	.209	.212	.215	.813
Payload	11.200	35.810	40.620	44.720	45.420	41.920	219.690
Spacecraft	14.800	32.800	23.800	42.600	35.900	21.100	171.000

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BYE-15204-71

SUMMARY
(Contd)

	<u>FY 1972</u>	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>	<u>Total</u>
<u>SAFSP - 3020 (Contd)</u>							
PAS/Roll Joint	1.400	2.000	1.400	2.700	2.000	2.100	11.600
- SCF-RTS Equipment	.270	0	0	0	0	0	.270
- SCF-STC Equipment	0	.606	0	0	0	0	.606
Subtotal	31.443	82.858	87.467	107.959	96.222	75.569	481.518
<u>SAFSP - 3080</u>							
Booster Launch	0	0	2.345	2.014	2.814	2.246	9.419
Acrospace	.584	1.387	1.457	1.528	1.598	1.669	8.223
Support Services	0	0	.050	.100	.100	.100	.350
Agema Launch	0	0	.207	.210	.106	.108	.631
ETL Guidance	0	0	.180	.180	.095	.097	.552
Propellants	0	0	.869	.880	.594	.602	2.945
CORH Targets	0	0	.620	.629	.637	.645	2.531
Film & Chemicals	.100	.306	.827	.734	.743	.753	3.463
Software	4.231	5.144	1.322	.984	.981	.994	13.656
SCF-RTS Equipment Maintenance	0	0	.175	.175	.175	.175	.700
SCF-STC 3800 OSM	0	.250	.250	.250	.250	.250	1.250
SCF-STC Equipment Maintenance	0	0	.088	.088	.088	.088	.352
SCF-STC Software Maintenance	.100	.140	.140	.140	.140	.140	.800
SCF-RTS Contractor Support	0	.054	.212	.212	.212	.212	.902
SCF-STC Contractor Support	0	.585	1.939	1.939	1.939	1.939	8.341
STC-RTS Comm Center	0	.060	.120	.120	.120	.120	.540
Subtotal	5.015	7.926	10.801	10.183	10.592	10.138	54.655
TOTAL SAFSP	150.738	167.592	117.225	119.642	106.814	85.707	714.715

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SUMMARY
(Contd.)

	<u>FY 1972</u>	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>	<u>Total</u>
<u>MILITARY CONSTRUCTION - 3300</u>							
Boss Secure Facility	.260	.520	0	0	0	0	.780
Cook Secure Facility	.260	.520	0	0	0	0	.780
Subtotal	.520	1.040	0	0	0	0	1.560
TOTAL MCP	.520	1.040	0	0	0	0	1.560
<u>MILITARY PERSONNEL - 3500</u>							
STC Personnel	.070	.425	.588	.588	.588	.588	2.847
Subtotal	.070	.425	.588	.588	.588	.588	2.847
TOTAL MILITARY PERSONNEL	.070	.425	.588	.588	.588	.588	2.847
TOTAL PROGRAM	151.328	169.057	117.813	120.230	107.402	86.295	752.125

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BYE-158A-71

SUMMARY
 FY 1972 FINANCIAL PLAN
 FY 1973 BUDGET ESTIMATE
 FY 1974-1977 PLANNING ESTIMATE
 PROJECT 10662
10 VEHICLE PROGRAM

Schedule

	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>	<u>Total</u>
	2	3	3	2	
	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>	

SAFSP - 3600

Booster	.500	.892	.207	0	0	1.599
Booster Engine Upgrade	3.820	4.840	0	0	0	8.660
Bit Boxes	.300	1.036	0	0	0	1.336
Payload	72.360	55.450	14.750	0	0	142.560
Spacecraft	34.000	11.800	3.600	1.500	0	50.900
PAS/Roll Joint	3.100	2.000	.400	0	0	5.500
SCF-STC Software Development	.200	.800	0	0	0	1.000
Subtotal	114.280	76.808	18.957	1.500	0	211.545

SAFSP - 3020

Booster Hardware	2.673	8.755	17.538	15.176	1.486	0	45.628
Core Engines	1.000	1.600	1.400	0	0	0	4.000
Bit Boxes	.100	.636	.543	0	0	0	1.279
CEC	0	0	.700	.720	.370	.375	2.165
Crypto Equipment	0	.651	1.259	.766	.776	0	3.452
CORE Targets	0	0	.207	.209	.212	.215	.843

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BYE-15804-71

SUMMARY
(Contd)

	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977	Total
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SAFSP - 3020 (Contd)

Payload	11.200	35.810	40.620	41.120	29.220	15.720	173.690
Spacecraft	14.800	32.800	23.800	35.600	29.900	12.400	149.300
PAS/Roll Joint	1.400	2.000	1.400	2.000	1.400	1.600	9.800
SCF-RIS Equipment	.270	0	0	0	0	0	.270
SCF-STC Equipment	0	.606	0	0	0	0	.606
Subtotal	31.443	82.858	87.467	95.591	63.364	30.310	391.033

SAFSP - 3080

Booster Launch	0	0	2.345	2.014	2.814	2.246	9.419
Aerospace	.584	1.387	1.457	1.528	1.598	1.669	8.223
Support Services	0	0	.050	.100	.100	.100	.350
Agenda Launch	0	0	.207	.210	.106	.108	.631
HTL Guidance	0	0	.180	.180	.095	0	.455
Propellants	0	0	.869	.880	.594	.602	2.945
CORU Targets	0	0	.620	.629	.637	.645	2.531
Film & Chemicals	.100	.306	.827	.734	.743	.753	3.463
Software	4.231	5.144	1.322	.984	.981	.994	13.656
SCF-RIS Equipment Maintenance	0	0	.175	.175	.175	.175	.700
SCF-TPC 3800 OSM	0	.250	.250	.250	.250	.250	1.250
SCF-STC Equipment Maintenance	0	0	.088	.088	.088	.088	.352
SCF-STC Software Maintenance	.100	.140	.140	.140	.140	.140	.800
SCF-RIS Contractor Support	0	.054	.212	.212	.212	.212	.902
SCF-STC Contractor Support	0	.585	1.939	1.939	1.939	1.939	8.341
STC-RIS Comm Center	0	.060	.120	.120	.120	.120	.540
Subtotal	5.015	7.926	10.801	10.183	10.592	10.041	54.558

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SUMMARY
(Contd)

	<u>FY 1972</u>	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>	<u>Total</u>
TOTAL SAFSP	150.738	167.592	117.225	107.274	73.956	40.351	657.136
MILITARY CONSTRUCTION - 3300							
Boss Secure Facility	.260	.520	0	0	0	0	.780
Cook Secure Facility	.260	.520	0	0	0	0	.780
Subtotal	.520	1.040	0	0	0	0	1.560
TOTAL MCP	.520	1.040	0	0	0	0	1.560
MILITARY PERSONNEL - 3500							
SIC Personnel	.070	.425	.588	.588	.588	.588	2.847
Subtotal	.070	.425	.588	.588	.588	.588	2.847
TOTAL MILITARY PERSONNEL	.070	.425	.588	.588	.588	.588	2.847
TOTAL PROGRAM	151.328	169.057	117.813	107.862	74.544	40.939	661.543

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BYE-15204-71

SUMMARY
(Contd)

	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977	Total
<u>SAFSP - 3020 (Contd)</u>							
PAS/Roll Joint	1.400	2.000	1.400	2.700	2.000	2.100	11.600
- SCF-RTS Equipment	.270	0	0	0	0	0	.270
- SCF-STC Equipment	0	.606	0	0	0	0	.606
Subtotal	31.443	82.858	87.467	107.959	96.222	75.569	481.518
<u>SAFSP - 3080</u>							
Booster Launch	0	0	2.345	2.014	2.814	2.246	9.419
Aerospace	.584	1.387	1.457	1.528	1.598	1.659	8.223
Support Services	0	0	.050	.100	.100	.100	.350
Agenna Launch	0	0	.207	.210	.105	.108	.631
BTL Guidance	0	0	.180	.180	.095	.097	.552
Propellants	0	0	.869	.880	.594	.602	2.945
COHN Targets	0	0	.620	.629	.637	.645	2.531
Film & Chemicals	.100	.306	.827	.734	.743	.753	3.463
Software	4.231	5.144	1.322	.984	.981	.994	13.656
SCF-RTS Equipment Maintenance	0	0	.175	.175	.175	.175	.700
SCF-STC 3800 O&M	0	.250	.250	.250	.250	.250	1.250
SCF-STC Equipment Maintenance	0	0	.088	.088	.088	.088	.352
SCF-STC Software Maintenance	.100	.140	.140	.140	.140	.140	.600
SCF-RTS Contractor Support	0	.054	.212	.212	.212	.212	.902
SCF-STC Contractor Support	0	.585	1.939	1.939	1.939	1.939	8.341
STC-RTS Comm Center	0	.060	.120	.120	.120	.120	.540
Subtotal	5.015	7.926	10.801	10.183	10.592	10.183	54.655
TOTAL SAFSP	150.738	167.592	117.225	119.642	106.814	85.752	711.715

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FY 1972 FINANCIAL PLAN
PROJECT 10662

FY 1974 FY 1975 FY 1976 FY 1977

2 3 3 2

Schedule

FY 1972

SAFSP WHITE

RD72E - 3600

Booster
Booster Engine Upgrade
Spacecraft
SCF - SIC Software Development

.500
3.820
34.000
.200

Subtotal

38.520

MISSILE PROCUREMENT - 3020

Booster Hardware
Core Engines
Spacecraft
SCF - RFS Equipment

2.673
1.000
14.800
.270

Subtotal

18.743

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EYE-15804-71

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FY 1972 FINANCIAL PLAN
 FY 1973 BUDGET ESTIMATE
 FY 1974-1977 PLANNING ESTIMATE
 PROJECT 10662

NARRATIVE1. AFSCFa. AFSCF FYDP

The AFSCF FYDP provides sufficient funding to support Project 10662 except for those items specifically identified in this submission. Specific items which have been identified to SAFSP as being included in the AFSCF FYDP but which will require our support to retain funds through the budget review and approval cycles are as follows:

- * \$.500 FY 1972 Real Time System Development (1230 Model) (Vol 3, page 31)
- .900 FY 1973 X-Band Capability (Vol 1, page 3-2)
- .600 FY 1974 X-Band Capability (Vol 1, page 3-2)
- * Of a total submission of \$1.000 million.

b. 3800 Computer

Costs for operations and maintenance of the surplus Kirtland 3800 computer (reference WHIG 0704) are included herein and identified as a separate line item.

2. BOOSTERS

The two spare core engines have been charged to Project 10662 and identified as a separate line item. In addition, the approximately \$1.050 million previously paid against the one spare engine has been credited to this project. Booster hardware charges have been made in accordance with WHIG 0569 direction, i.e., one FY 1975 10662 booster charged to GANBIT.

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BYE-15804-71

3. SUPPORT COSTS

A ground rule in costing Project 10662 was that GAMBIT would continue to bear the basic support costs and 10662 would be charged only the delta increase. For example, the launch crew contracted for under the provisions of Tab 9 of LMSC contract -0024 will continue to be charged to GAMBIT and only the increased level to allow for 10662 launches charged to 10662. No attempt has been made to re-prorate these costs by the number of launches per program. This rule has been applied throughout this exercise.

4. MCP

Facilities authorization outside of normal MCP programming channels will be required in order to meet the construction requirements at Boss and Cook. A review is currently under way to determine if available facilities can be modified in lieu of new construction.

5. SPACECRAFT

Spacecraft costs are based on the assumption that TRW will be selected as the Command Subsystem subcontractor to LMSC through competition currently being conducted. In the event GE is selected, additional FY 1972 costs (\$4.000 million) and total program costs (\$10.000 million) could be incurred.

6. UNDEFINED

Excluded from this submission are any undefined amounts. However, based on GAMBIT experience, the following additional funds are recommended for inclusion:

	<u>FY 1972</u>	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>
Spacecraft	6.200	10.000	5.700	3.100	2.800	1.800
Payload	4.500	8.300	5.300	3.400	2.800	1.800
PAS/Roll Joint	.300	1.500	.700	.300	.200	.200
Total	11.000	19.800	11.700	6.800	5.600	3.800

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BYE-15804-71

7. GROUND READOUT STATION EQUIPMENT

A survey is being conducted of the National Emergency Reserve (NER) at AFSPFF in an attempt to identify any items of equipment that can be made available to the payload contractor CFE in lieu of CFE. If such items are identified and obtainable, ground equipment costs reflected in this submission would be reduced accordingly.

8. POSSIBLE PROGRAM REDUCTIONS/DEFERRALS

A separate section is provided reflecting possible reductions/deferrals in both FY 1972 and total program to accommodate directed ceilings.

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HVE-15804-71

POSSIBLE PROGRAM REDUCTIONS/DEFERRALS
PROJECT 10662

ITEM	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977	TOTAL	ACTION
Delete SCS-1 Injector Engine	- .900	- .100	0	0	0	0	- 1.000	Recommended
Delay Booster Eng Upstate Dev	- 2.220	+ 2.520	0	0	0	0	+ .300	Recommended
Delete Bit Boxes	- .400	- 1.672	- .543	0	0	0	- 2.615	Recommended
Delete Payload Hot Vib	0	- 1.750	0	0	0	0	- 1.750	Not Recommended
Delete Payload Hot Dog Sensor	- .178	- .072	0	0	0	0	- .250	Not Recommended
Delete Payload Align Sensor	- .356	- .144	0	0	0	0	- .500	Not Recommended
Delete Payload Rad Docimeter	- .356	- .144	0	0	0	0	- .500	Recommended
Delete Add P/L Stereo Positions	- .500	- .500	0	0	0	0	- 1.000	Not Recommended
Delete SCS Cont Recon Hdw	- 2.600	- 1.200	0	0	0	0	- 3.800	Recommended
Credit GAMBIT FY 72 Red 10662	- 1.193	0	0	0	0	0	- 1.198	Recommended
Defer SCS Material Payment	- 1.800	+ 1.800	0	0	0	0	0	Possible
Defer SCS Subcontract Payment	- 3.000	+ 3.000	0	0	0	0	0	Possible
Defer SCS ANE Procurement	- 1.100	+ 1.200	0	0	0	0	+ .100	Possible
SCS S/C Negotiation Credit	- 1.200	- .400	0	0	0	0	- 1.600	Questionable
Delay Start of Software Dev	- 1.000	+ 1.100	0	0	0	0	+ .100	S/T Risk *
Delay Payload Development	- 6.200	+ 4.600	+ 1.700	0	0	0	+ .100	S/T Risk *
Delay Payload Hdw Procurement	- 4.700	+ 4.100	+ .700	+ .600	+ .300	0	+ 1.000	S/T Risk *
TOTAL REDUCTIONS/DEFERRALS	-27.708	+12.338	+ 1.857	+ .600	+ .300	0	- 12.613	
BASELINE PROGRAM (Continuing)	151.328	169.057	117.813	120.230	107.402	86.295	752.125	
REVISED PROGRAM	123.620	181.395	119.670	120.830	107.702	86.295	739.512	

1. Recommended: Delete from requirement if capability not required.

2. Possible: Requires further detailed analysis; suggest deferral of initial approval until status can be determined; if subsequently required, submit in supplemental program request.

3. Questionable: Depends on negotiation results; suggest some action as Item 2 above.

4. *Schedule/Technical Risk: Not recommended; suggest additional funds be secured.

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BYE-15294-71

FY 1973 BUDGET ESTIMATE
 FY 1974-1977 PLANNING ESTIMATE
 PROJECT 10662
 ECONOMIC ESCALATION RECAP

	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>
<u>CONTINUING PROGRAM</u>					
RDT&E	.118	.007	0	0	0
Missile Procurement	.192	.693	.855	.785	.782
Other Procurement	<u>.071</u>	<u>.274</u>	<u>.383</u>	<u>.526</u>	<u>.612</u>
TOTAL	.381	.974	1.238	1.311	1.394
<u>10 VEHICLE PROGRAM</u>					
RDT&E	.118	.007	0	0	0
Missile Procurement	.192	.693	.366	.121	.149
Other Procurement	<u>.071</u>	<u>.274</u>	<u>.383</u>	<u>.526</u>	<u>.605</u>
TOTAL	.381	.974	.749	.647	.754

NOTE: Payload, software, and spacecraft contractor submissions were based on approved/proposed bid rates; therefore, no additional escalation was included at the rates prescribed in WHIC 0663.

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EYE-15300-71

BOOSTER RECAPITULATION
PROJECT 10662 - TITAN-III-B

Program Vehicle Number	Proposed Booster Number	Booster Delivery Current	Booster Delivery Required	Planned Launch Date	Booster Procurement Status
1	48	Feb 74	Nov 73	Jan 74	On Contract
2	50	Jun 74	Feb 74	Apr 74	On Contract
3	52	-	May 74	Jul 74	Pend Negotiation
4	55	-	Sep 74	Nov 74	Pend Negotiation
5	57	-	Feb 75	Apr 75	-
6	59	-	Jun 75	Aug 75	-
7	62	-	Nov 75	Jan 76	-
8	64	-	Mar 76	May 76	-
9	67	-	Sep 76	Nov 76	-
10	68	-	Mar 77	May 77	-

Launch dates established for planning only; actual launch will be based on failure of on-orbit vehicles.

Proposed Booster Vehicle Numbers are tentative. Reassignment of vehicles to all SAFSP programs will be done following 10662 and revised GAMBIT approvals such that the smoothest production schedule is maintained.

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BYE-15804-71

AEROSPACE RECAPITULATION
PROJECT GAMBIT
PROJECT 10662

	<u>FY 1972</u>	<u>FY 1973</u>	<u>FY 1974</u>	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>
GAMBIT	35 *	41	41	41	41	41
10662	10.5 *	23.5	23.5	23.5	23.5	23.5

* As approved in BYE-12841-71

The above level-of-effort is believed essential to pursue the development/acquisition/operation of GAMBIT and 10662.

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SECTION III

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BYE-1924-7

PROGRAM SCOUT C.V.I.O.

SAFSP CONSOLIDATED REQUIRED DELIVERY SCHEDULE TIM-11-B BOOSTERS

[illegible]

GALIBIT

10662

TOTAL

Approved for Release: 2023/08/11 C05143440

Approved for Release: 2023/08/11 C05143440

For

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REALITY

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(b)(3)

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PROGRAM SCHEDULE C.Y.L.O.

SAFSP CONSOLIDATED REQUIRED DELIVERY SCHEDULE TITAN-III-B BOOSTERS
(Page 2)

AE-1200-74

		FY 76		FY 77		FY 78		FY 79	
		CY 75		CY 76		CY 77		CY 78	
1	GAURIT	J	A	S	O	N	D	J	A
2		S	O	N	D	J	A	S	O
3		N	D	J	A	S	O	N	D
4		D	J	A	S	O	N	D	J
5		J	A	S	O	N	D	J	A
6		A	S	O	N	D	J	A	S
7	10662	O	N	D	J	A	S	O	N
8		N	D	J	A	S	O	N	D
9	TOTAL	D	J	A	S	O	N	D	J
10		J	A	S	O	N	D	J	A
11		A	S	O	N	D	J	A	S
12		S	O	N	D	J	A	S	O
13		O	N	D	J	A	S	O	N
14		N	D	J	A	S	O	N	D
15		D	J	A	S	O	N	D	J
16		J	A	S	O	N	D	J	A
17		A	S	O	N	D	J	A	S
18		S	O	N	D	J	A	S	O
19		O	N	D	J	A	S	O	N
20		N	D	J	A	S	O	N	D
21		D	J	A	S	O	N	D	J
22		J	A	S	O	N	D	J	A
23		A	S	O	N	D	J	A	S
24		S	O	N	D	J	A	S	O
25		O	N	D	J	A	S	O	N
26		N	D	J	A	S	O	N	D
27		D	J	A	S	O	N	D	J
28		J	A	S	O	N	D	J	A
29		A	S	O	N	D	J	A	S
30		S	O	N	D	J	A	S	O
31		O	N	D	J	A	S	O	N
32		N	D	J	A	S	O	N	D
33		D	J	A	S	O	N	D	J
34		J	A	S	O	N	D	J	A
35		A	S	O	N	D	J	A	S
36		S	O	N	D	J	A	S	O
37		O	N	D	J	A	S	O	N
38		N	D	J	A	S	O	N	D
39		D	J	A	S	O	N	D	J
40		J	A	S	O	N	D	J	A
41		A	S	O	N	D	J	A	S
42		S	O	N	D	J	A	S	O
43		O	N	D	J	A	S	O	N
44		N	D	J	A	S	O	N	D
45		D	J	A	S	O	N	D	J
46		J	A	S	O	N	D	J	A
47		A	S	O	N	D	J	A	S
48		S	O	N	D	J	A	S	O
49		O	N	D	J	A	S	O	N
50		N	D	J	A	S	O	N	D
51		D	J	A	S	O	N	D	J
52		J	A	S	O	N	D	J	A
53		A	S	O	N	D	J	A	S
54		S	O	N	D	J	A	S	O
55		O	N	D	J	A	S	O	N
56		N	D	J	A	S	O	N	D
57		D	J	A	S	O	N	D	J
58		J	A	S	O	N	D	J	A
59		A	S	O	N	D	J	A	S
60		S	O	N	D	J	A	S	O
61		O	N	D	J	A	S	O	N
62		N	D	J	A	S	O	N	D
63		D	J	A	S	O	N	D	J
64		J	A	S	O	N	D	J	A
65		A	S	O	N	D	J	A	S
66		S	O	N	D	J	A	S	O
67		O	N	D	J	A	S	O	N
68		N	D	J	A	S	O	N	D
69		D	J	A	S	O	N	D	J
70		J	A	S	O	N	D	J	A
71		A	S	O	N	D	J	A	S
72		S	O	N	D	J	A	S	O
73		O	N	D	J	A	S	O	N
74		N	D	J	A	S	O	N	D
75		D	J	A	S	O	N	D	J
76		J	A	S	O	N	D	J	A
77		A	S	O	N	D	J	A	S
78		S	O	N	D	J	A	S	O
79		O	N	D	J	A	S	O	N
80		N	D	J	A	S	O	N	D
81		D	J	A	S	O	N	D	J
82		J	A	S	O	N	D	J	A
83		A	S	O	N	D	J	A	S
84		S	O	N	D	J	A	S	O
85		O	N	D	J	A	S	O	N
86		N	D	J	A	S	O	N	D
87		D	J	A	S	O	N	D	J
88		J	A	S	O	N	D	J	A
89		A	S	O	N	D	J	A	S
90		S	O	N	D	J	A	S	O
91		O	N	D	J	A	S	O	N
92		N	D	J	A	S	O	N	D
93		D	J	A	S	O	N	D	J
94		J	A	S	O	N	D	J	A
95		A	S	O	N	D	J	A	S
96		S	O	N	D	J	A	S	O
97		O	N	D	J	A	S	O	N
98		N	D	J	A	S	O	N	D
99		D	J	A	S	O	N	D	J
100		J	A	S	O	N	D	J	A

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3 July 1971TOTAL PROGRAM
Deletions

	72	73	74	75	76	77
600 - S/C (<u>SES-1</u>)	- 900	- 100				
600 - P/L (<u>Docim.</u>)	- 350	- 144				
600 - P/L (<u>ST-2500</u>)	- 500	- 500				
600 - S/C (<u>HAR</u>)	- 2,600	- 1,200				
200 - P/L (<u>CGS-015</u>)	- 1,185					
600 - S/C (<u>N-6.</u>)	- 1,200	- 400				

SS-7 Eyes Only

The attached reflects the results of the - Bomber meeting on 3 July 71^{(b)(3)}. It accomplishes the above total NRO program deletions plus a shift of 3000 items to 'G'.

Dan Alser

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B-1E MAN - INTERIM

CHARGE TO FROA
(CONTINUING PROGRAM)

72 73 74 75 76 77

3600:

BOOSTER Dev.	500	822	207			
Payroll	69,104	53,706	14,750			
SPACECRAFT	19,195	7,514	3,600	1,500		
PAS / Row Joint	<u>3,100</u>	<u>2,000</u>	<u>400</u>			
SUB TOTAL	91,899	64,162	18,957	1,500	0	0

3020:

BOOSTER HARDWARE	4,673	11,155	17,738	16,244	11,544	9,073
COMMON EQUIPMENT	-	-	700	720	370	375
Payroll	10,002	35,810	40,620	44,720	45,420	41,920
SPACECRAFT	14,800	32,800	23,800	42,600	35,900	21,100
PAS / Row Joint	<u>1,400</u>	<u>2,000</u>	<u>1,400</u>	<u>2,700</u>	<u>2,000</u>	<u>2,100</u>
SUB TOTAL	30,875	81,765	84,258	106,984	95,234	74,568

3080:

BOOSTER LAUNCH			2,345	2,014	2,814	2,246
AEROSPACE	584	1,387	1,457	1,528	1,598	1,669
SUPPORT SERVICES			50	100	100	100
ARENA LAUNCH			207	210	106	108
BTL GUIDANCE			180	180	95	97
SOFTWARE	<u>4,231</u>	<u>5,144</u>	<u>1,322</u>	<u>984</u>	<u>981</u>	<u>994</u>
SUB TOTAL	4,815	6,531	5,561	5,016	5,694	3,214

FROA TOTAL

127,589 152,458 108,776 113,500 100,928 77,782

<u>CHARGE TO SCF</u>	72	73	74	75	76	77
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3600:

STC SOFTWARE Dev.	200	800				
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3020:

RTS EQUIPMENT	270					
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STC EQUIPMENT		600				
---------------	--	-----	--	--	--	--

3090:

RTS Equip. Maint.			175	175	175	175
-------------------	--	--	-----	-----	-----	-----

STC 3P00 O&M		250	250	250	250	250
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STC Equip. Maint.			88	88	88	88
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STC SOFTWARE Maint.	100	140	140	140	140	140
---------------------	-----	-----	-----	-----	-----	-----

RTS CONTRACTOR SPT.		54	212	212	212	212
---------------------	--	----	-----	-----	-----	-----

STC CONTRACTOR SPT.		585	1,939	1,939	1,939	1,939
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RTS COMM CENTER		60	120	120	120	120
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SUBTOTAL	100	1099	2,924	2,924	2,924	2,924
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SCF Total	570	2,495	2,924	2,924	2,924	2,924
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CHARGE TO SECURITY SERVICE

3020:

Crypto Equip.	651	1,259	766	776	786
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CHARGE TO AFSPF 72 73 74 75 76 77

3020:

CORN TARGETS 207 209 212 215

3080:

CORN TARGETS 620 629 637 645

SPFF TOTAL 827 838 849 860

CHARGE TO PHOTOGRAPHIC MATERIAL AND PROCESSING

3010:

Film and Chemicals 100 306 827 724 743 753

CHARGE TO PROPAGANTS

3090:

PROPAGANTS 869 880 544 602

CHARGE TO UNASSIGNED

3020:

CORE ENGINES 1,000 1,600 1,400

④

CHARGE TO GAMBIT 72 73 74 75 76 77

3600:

BOOSTER ENGINE UPRATE	3,820	4,840
S/C - ISPS	4,695	1,174
S/C - GRA DEV.	2,210	552
S/C - HOT GAS	3,200	800
P/L - GRAV DRIVE, FIXED MIRROR, REMOVABLE DOOR	<u>2,400</u>	<u>1,100</u>

GAMBIT TOTAL ADD 16,325 8,466

DELETE ASSIGNMENT OF NO. 46 TITAN III B TO
 PEPPI, AND ASSIGN TO FRUG
 ASSIGN NO. 47 TO FRUG

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Byeman-Integration

10 Vehicle Program 72 73 74 75 76 77 Total
CHARGE TO FROG:

3600:

BOOSTER Dev.	500	892	207				1,599
Payload	69,104	53,706	14,750				137,560
Spacecraft	19,195	7,574	3,600	1,500			31,869
PAS/Ron Joint	3,100	2,000	400				5,500
Sub total	91,899	64,162	18,957	1,500	0	0	176,518

3020:

BOOSTER Hardware	4,673	11,155	17,738	12,062	-	-	45,628
Common Equipment	-	-	700	720	370	375	2,165
Payload	10,000	35,810	40,620	41,120	29,220	15,720	173,690
Spacecraft	14,800	32,800	23,800	35,600	29,900	12,400	149,300
PAS/Ron Joint	1,400	2,000	1,400	2,000	1,400	1,600	9,800
Sub total	30,873	81,765	84,258	91,502	60,890	30,095	380,573

3080:

BOOSTER Launch			2,345	2,014	2,814	2,246	9,419
Aerospace	584	1,387	1,457	1,528	1,598	1,669	8,223
Support Services			50	100	100	100	350
Agena Launch			207	210	106	108	631
BTL Guidance			180	180	95	-	455
Software	4,231	5,144	1,322	984	981	994	13,652
Sub total	4,815	6,531	5,561	5,016	5,694	3,117	32,734
FROG Total	127,589	152,458	109,776	98,018	66,584	33,212	589,835

72 73 74 75 76 77 Total

CHARGE TO SCF

3600:

STC Software Dev.	200	800						1,000
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3020:

RTS Equipment	270							270
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STC Equipment		606						606
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3080:

RTS Equip. Maint.			175	175	175	175		700
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STC 3800 O+M		250	250	250	250	250		1,250
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STC Equip. Maint.			88	88	88	88		352
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STC Software Maint.	100	140	140	140	140	140		800
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RTS Contractor Fee.		54	212	212	212	212		902
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STC Contractor Fee.		585	1,939	1,939	1,939	1,939		8,341
---------------------	--	-----	-------	-------	-------	-------	--	-------

RTS Comm Center		60	120	120	120	120		540
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Sub Total	100	1,089	2,924	2,924	2,924	2,924		12,886
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SCF Total		570	2,495	2,924	2,924	2,924	2,924	14,760
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CHARGE TO SECURITY SERVICE:

3020:

Crypto Equip.		651	1,259	766	776	-		3,452
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	72	73	74	75	76	77	Total
<u>CHARGE TO AFSPFF</u>							

3020:

CORN TARGETS	207	209	212	215	843
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3080:

CORN TARGETS	<u>620</u>	<u>629</u>	<u>637</u>	<u>645</u>	<u>2,531</u>
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SPFF Total

827	838	849	860	3,370
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CHARGE TO PHOTOGRAPHIC MATERIALS AND PROCESSING

3010:

Film AND Chemicals	100	306	827	734	743	752	3,463
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CHARGE TO PROPAGANTS

3090:

PROPAGANTS	869	880	594	602	2,945
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CHARGE TO UNASSIGNED

3000:

CORR ENCL	1,000	1,600	1,400	4,000
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	72	73	74	75	76	77	Total
<u>CHARGE TO GAMBIT</u>							

3600:

ROUTER ENG. URGENT	3,750	4,740					8,490
S/C - ISS	4,695	1,174					5,869
S/C - GRA DOL.	2,210	552					2,762
S/C - HOT GAS	3,200	800					4,000
P/L - CASE DUNE,							
EXCISE MIRA 200,							
BURROUGHS DOL.	<u>2,400</u>	<u>1,100</u>					<u>3,500</u>

GAMBIT ADV TOTAL	16,355	8,466					24,821
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