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FEB 1 1969

MEMORANDUM TO GENERAL BLEYMAIER

SUBJECT: Intelligence Targets for MOL Crew Training

During the briefing on the crew training program given by the Systems Office in November 1968, we agreed that the MOL astronauts should begin to train and familiarize themselves on intelligence targets likely to be covered by MOL in the 1971-73 time period. With regard to the installations and complexes to be studied initially, I stated that I would have a list of 25-50 potential DORIAN targets prepared for your use in gathering mission training material. Such a list is attached, along with certain explanatory material that should be of assistance to the training people.

The target list may appear at first to be too large for the crew time and effort available to mission training at this time. However, as the attached paper explains, the list has been reduced to about the minimum that still conforms to the guidelines used to prepare it. In any event, selected targets from the list can be used as crew availability for mission training permits. The attached paper recommends certain targets for this purpose.

SIGNED

JAMES T. STEWART
Major General, USAF
Vice Director, MOL Program

Atch
a/s

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Page 1 of 1 page
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INTELLIGENCE TARGET LIST
For
CREW MISSION TRAINING

This paper explains the rationale for selection of targets included on the attached list, provides a summary by target types and categories, and compares the list with the MOL 608 Target Model and the COMIREX target deck for KH-8 operations.

Rationale.

Targets were selected in accordance with the following guidelines:

- The total list should contain 25 to 50 targets.
- Each target, installation or complex should be of a type against which the DORIAN system would be employed. That is, the targets should be sources of technical intelligence rather than order of battle (deployed operational sites, airfields and barracks).
- Each target should be of a permanent nature with near certainty that it will be equally or more important when covered by the DORIAN system.
- The list should include targets from all of the COMIREX target categories.
- The list should include a substantial number of targets from the MOL 608 Target Model sample. These targets have been reviewed by FTD, and have DORIAN aiming points assigned.
- Target areas or complexes with many individual targets (e.g., Tyuratam, Sary Shagan, etc.) are to be listed only once. The single entry then includes all separate targets noted by suffix letters in the COMIREX target list.

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- As many targets as possible are to be items that have carried high priorities on recent KH-8 missions.

Summary.

The list contains a total of 61 installations, some of which are composed of a number of individual targets (e.g., Tyuratam, Plesetsk, Sary Shagan, and Kapustin Yar). Fifty-three of the installations are in the Soviet Union (country code UR), and eight are in Communist China (country code CH). The list includes 35 targets which are also contained in the MOL 608 Target Model sample. Twenty-seven of the items on the list were of highest priority (Priority 0 or 1) on four of the most recent KH-8 missions.

The number of installations on the list by target types:

- Missiles	33
- Aircraft	7
- Nuclear Energy	7
- Naval	2
- BW/CW	3
- Electronics	5
- Ground Forces	1
- Urban/Industry	1
- Other	2
Total	<u>61</u>

Comparison With Model 608 and COMIREX.

The listings below provide a detailed comparison with COMIREX target decks for early and recent KH-8 missions, and

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with the distribution of targets used in the MOL 608 Target Model sample.

<u>Category Code and Description</u>	Number of Installations			
	<u>Early KH-8</u>	<u>Recent KH-8</u>	<u>Model 608</u>	<u>Ing List</u>
1. Guided Missiles				
A. ICBM Deployment	717	1113	75	2
B. IRBM and MRBM	279	296	27	-
C. Research & Development (inc. space)	57	67	19	5
D. Production Facilities (inc. test)	60	79	9	12
E. Suspect Missile	33	13	6	-
G. Naval Launched Missiles	50	72	13	8
H. Anti-Missile Missile	32	62	8	2
I. SAM Sites	217	475	26	-
J. Short Range SSM	16	49	7	-
K. Missile Support/Storage Areas	23	46	7	4
L. SAM Training Complexes	4	16	3	-
Sub Total	<u>1488</u>	<u>2288</u>	<u>200</u>	<u>33</u>
2. Aircraft				
A. Long Range Bases	91	95	12	1
B. Production Facilities (inc. R&D)	32	46	10	6
C. Airfields	630	830	70	-
Sub Total	<u>753</u>	<u>971</u>	<u>92</u>	<u>7</u>
3. Nuclear Energy				
A. Test Area	19	25	9	2
B. Production	46	58	8	4
C. Stockpiles	23	14	3	1
D. Research Institutes	18	22	2	-
E. Suspect Activity	5	19	3	-
Sub Total	<u>111</u>	<u>138</u>	<u>25</u>	<u>7</u>
4. Naval Activity				
A. Operating Bases	41	78	10	-
B. Production Yards	14	35	2	2
C. Commercial Ports	27	81	4	-
D. Locks & Canals	1	0	1	-
Sub Total	<u>83</u>	<u>194</u>	<u>17</u>	<u>2</u>

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	<u>Early KH-8</u>	<u>Recent KH-8</u>	<u>Model 608</u>	<u>Tng List</u>
5. Biological/Chemical Warfare				
A. BW/CW Test Areas	9	10	3	1
B. Production	19	25	3	1
C. Storage	37	30	7	1
D. Research Institutes	5	5	0	-
E. Suspect Activity	<u>12</u>	<u>11</u>	<u>3</u>	<u>-</u>
Sub Total	82	81	16	3
6. Electronics				
A. Missile Tracking Facilities	34	58	9	2
B. Electronics, General	<u>190</u>	<u>200</u>	<u>31</u>	<u>3</u>
Sub Total	224	258	40	5
7. Military				
A. Military Installations	1738	2261	188	1
B. Special Area	3	7	3	-
C. (Unspecified)	13	16	2	-
D. Landing Beaches	1	1	1	-
G. Tactical SSM Support Facilities	<u>0</u>	<u>80</u>	<u>0</u>	<u>-</u>
Sub Total	1755	2365	194	1
8. Urban/Industrial				
A. Complexes	73	192	9	-
B. Industrial Plants	<u>61</u>	<u>149</u>	<u>10</u>	<u>1</u>
Sub Total	134	341	19	1
9. Other				
A. Unidentified Installations	23	32	5	2
Total	<u>4654</u>	<u>6672</u>	<u>608</u>	<u>61</u>

Selected Targets.

In the event a selected sample of installations (from the list of 61 targets) is desired, the following items are suggested:

<u>List Item No.</u>	<u>COMIREX Number</u>	<u>Target</u>
1. 1	1A0003	Plesetsk Missile Space Center (Including 30 COMIREX targets)

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	<u>List</u>	<u>COMIREX</u>	<u>Target</u>
	<u>Item No.</u>	<u>Number</u>	
2.	2	1A0019	Tyuratam Missile Test Center (Including 38 COMIREX targets)
3.	3	1C0001	Kapustin Yar/Vladimirovka Missile Test Center (Including 13 COMIREX targets)
4.	4	1C0003	Sary Shagan Missile Test Center (Including 6 COMIREX targets)
5.	5	1C0009	Shuang Cheng Tzu Missile Test Center (Including 8 COMIREX targets)
6.	6	1C0015	Emba Missile Test Center (Including 6 COMIREX targets)
7.	20	1G0001	Severodvinsk Shipyard 402 (Including 5 COMIREX targets)
8.	36	2B0003	Ramenskoye Flight Test Center
9.	39	2B0022	Akhtubinsk Flight Test Center (Including Vladimirovka Airfield)
10.	49	4B0012	Komsomolsk Shipyard Amur 199

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TRAINING TARGET LIST

Item	COMIREX Number	Country Code	Target	Coordinates	
				North	East
1*	1A0003	UR	Plesetsk Missile Space Center	62-56	040-37
2*	1A0019	UR	Tyuratam Missile Test Center	45-46	063-28
3*	1C0001	UR	Kapustin Yar/Vladimirovka Msl Test Ctr	48-35	045-45
4*	1C0003	UR	Sary Shagan Missile Test Center	46-11	072-41
5*	1C0009	CH	Shuang Cheng Tzu Missile Test Center	41-08	100-15
6*	1C0015	UR	Emba Missile Test Center	48-30	058-33
7	1C0044	UR	Nenoksa Missile Test Center	64-38	039-11
8	1D0001	UR	Dnepropetrovsk Msl Dev & Prod Ctr Plt 186	48-26	034-59
9	1D0003	UR	Moskva CM Eng Plt Khimki 456	55-54	037-27
10*	1D0004	UR	Moskva CM Plt Tushino 82	55-50	037-27
11	1D0006	UR	Zagorsk Static Test Fac Krasnozavogsk	56-25	038-10
12	1D0016	UR	Krasnoyarsk Rocket Engine Test Fac	56-06	093-25
13*	1D0017	UR	Kuybyshev Airframe Plt Stalin 1	53-13	050-1b
14*	1D0042	CH	Pei Ching CM Prod Ctr Chang Hsin Tien	39-48	116-07
15	1D0045	UR	Kuybyshev Aircraft Eng Plt Expmnt Glinka 2	53-21	050-11
16	1D0047	UR	Tbilisi Airframe Plt 31	41-39	044-52

*Items asterisked are in the MOL 608 Target Model.

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Item	COMIREX Number	Country Code	Target	Coordinates	
				North	East
17	1D0066A	UR	Biysk Static Test Facility	52-29	085-07
18	1D0082	CH	Peiping Guided Missile Plant Nanyuan	39-48	116-25
19	1D0096A	UR	Moskva Aircraft Eng Rsch Ctr Myachkovo TsIAM	55-35	037-56
20*	1G0001A	UR	Severodvinsk Shipyard 402	63-34	039-40
21*	1G0002A	UR	Severomorsk Naval Missile Storage Facility	69-05	033-29
22	1G0002B	UR	Severomorsk Naval Base	69-04	033-25
23	1G0004B	UR	Guba Sayda Submarine Base	69-15	033-19
24*	1G0008A	UR	Guba Litsa Submarine Base North	69-27	032-26
25	1G0016	UR	Rosta Naval Base & Shipyard Sevморput	69-01	033-04
26*	1G0017B	UR	Vladivostok Naval Base & Shipyard 202	43-06	131-55
27*	1G0026	UR	Petrovka Naval Base Shipyard	43-07	132-20
28	1H0006C	UR	Moskva AM-1 Complex Site E-24	55-21	036-29
29	1H0043	UR	Tallinn SAM Complex B28-5	59-24	024-14
30*	1K0022	UR	Bobrovskiy Regional Mil Storage Facility	56-41	061-05
31*	1K0022W	UR	Bobrovskiy Nuclear Weapons Storage Site	56-47	060-56
32	1K0023	UR	Glazov Missile Support Facility	57-51	053-16
33	1K0040	UR	Borovsk ABM Support Facility	55-18	036-33

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Item	COMIREX Number	Country Code	Target	Coordinates	
				North	East
34*	2A0002	UR	Dolon Airfield	50-32	079-10
35*	2B0002	UR	Kazan Airframe Plant 22	55-52	049-07
36*	2B0003	UR	Ramenskoye Flight Test Center	55-33	038-07
37*	2B0008	UR	Komsomolsk Airframe Plant Ordzhonikidze 126	50-34	137-05
38	2B0018	CH	Shen Yang Airframe Plant 112	41-52	123-26
39*	2B0022	UR	Akhtubinsk Flight Test Center	48-18	046-11
40	2B0025	UR	Novosibirsk Aircraft Plant 153	55-04	082-59
41*	3A0002	CH	Lop Nor Nuclear Test Site	40-50	089-40
42*	3A0004	UR	Semipalatinsk Nuclear Weapon Proving Ground	50-25	077-50
43	3B0002	CH	Chih Chin Hsia Nuclear Energy Complex	40-13	097-22
44*	3B0006	CH	Lan Chou Gaseous Diffusion Plant	36-09	103-31
45*	3B0020A	UR	Dodonovo Atomic Energy Complex	56-20	093-36
46*	3B0028A	UR	Nizhnyaya Tura Nuclear Weapon Fab & Assy Fac	58-38	059-42
47*	3C0017	UR	Mozhaysk Nuclear Weapons Stockpile Site	55-25	035-46
48	4B0007C	UR	Leningrad Shipyard Admiralty 194	59-55	030-16
49*	4B0012	UR	Komsomolsk Shipyard Amur 199	50-32	137-03
50*	5A0003B	UR	Ostov Vozrozhdeniya Chem Warfare Test Area	45-08	059-15

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Item	COMIREX Number	Country Code	Target	Coordinates	
				North	East
51	5B0023	UR	Volgograd Chem & CW Plant Beketovka 91	48-34	044-28
52	5C0015	UR	Arys Chemical Warfare Ammo Depot	42-27	068-48
53	6A0094	UR	Sary Shagan ASAT/Space Tracking Radar Facility	46-36	074-31
54*	6A0097	UR	Skrunda ABM/Space Tracking Radar Facility	56-42	021-57
55*	6B0011	UR	Mytishchi Electronics Development Facility	55-55	037-44
56*	6B0276	UR	Sary Shagan R&D Radar Facility 1	46-00	073-39
57*	6B0390	UR	Gorkiy R&D Electronics Facility	56-17	043-45
58*	7A1084K	UR	Khabarovsk Army Barracks Sita River AL 24	48-29	135-27
59*	8B0354	UR	Leningrad Arms & Tank Plant Bolshevik 232	59-51	030-28
60	9A0074	UR	Borisoglebsk Sensitive Operations Complex	51-22	041-55
61	9A0093	CH	Shuang Cheng Tzu Sus Adv Wpns Rel Fac 4	41-43	100-25

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