

THE FOLLOWING DOCUMENTS
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(Please do not remove)

ER 4193 89

ICS 4338 89

SUBJECT:

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

Point Paper for National Space Council Meeting - 26 October 1989

FROM:
Lt Gen Edward J. Heinz, USAF
Director, Intelligence Community Staff

EXTENSION

NO. ICS 4338-89

DATE 25 October 1989

TO: (Officer designation, room number, and building)

25 OCT 1989

DATE

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OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

CR Mr. Richard J. Kerr
DDCI

10/26 RIC

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*Space - civil
MRO program*

POINT PAPER FOR
NATIONAL SPACE COUNCIL MEETING
26 OCTOBER 1989

Time/Place

- o The meeting will be at 1030 AM in the the Vice President's OEGB office, Room 272. The D/ICS, Lt Gen Heinz, will accompany the DDCI.

Purpose of Meeting

- o To discuss policy issues associated with the President's Space Exploration (Moon/Mars) Initiative (see meeting announcement at Tab A). This is an informational meeting intended to brief the member agencies on the Space Council's work plan on this initiative. No decisions will be made.

High Level

Background

- o President Bush's speech, 20 July 1989, proposed a long-range continuing commitment (to manned space exploration):
 - "For the coming decade--for the 1990s--Space Station Freedom."
 - "For the new century, back to the Moon . . . And this time, back to stay."
 - "And then, a journey to another planet--a manned mission to Mars."
- o Vice President Quayle and National Space Council were tasked to:
 - "Determine specifically what is needed for the next round of exploration--the necessary money, manpower, and material--the feasibility of international cooperation--and develop realistic timetables, milestones along the way."
 - Report back, as soon as possible, with concrete recommendations.
- o 20 July through 28 September 1989.
 - Considerable Space Council Staff and EOP activity but no DCI/ICS involvement on this initiative.
- o Space Council Staff recently invited DCI representatives to participate in the development of an issue paper on international cooperation and informally provided background on the overall effort to respond to the President's tasking:
 - Determine the feasibility and desirability of international cooperation.
 - Decide, if that determination is positive, which countries or groups of countries should receive initial overtures about participation.

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- Determine models of cooperation for countries or groups of countries that seem appropriate for at least the early stages of the Moon/Mars initiative.

Current Status/Discussion

- o A Policy and Implementation Review Committee (PIRC) meeting was held on 20 October to brief the member agencies on the Space Council's work plan for satisfying the President's tasking (Tab B is an MFR on this meeting, attachments to this MFR are at Tabs C, D and E). The same briefing charts will be used to brief the Space Council (see Tab E for the charts and Tab B for a discussion of the schedule.)
- o At the PIRC meeting, members had a brief discussion of the policy issues associated with the Moon/Mars initiative (see Tab B) but did not take issue with the work plan.
- o The EOP work on the International issue is of special interest. DCI is represented on this working group; CIA, in coordination with DIA, has provided inputs on the space programs of the USSR and China. (see Tabs F and G).
- o DCI is not represented on the other two EOP working groups on Mission Planning and Management. We expect to have an opportunity to review the efforts when the issue papers are sent to the PIRC members for review and comment.
- o The NASA technical analysis task is a multimillion dollar effort to develop detailed program options. Space Council member agencies have not yet been briefed on this effort.

Issues/Problems of Concern to the Intelligence Community

- o The Space Council process has thus far included only minimal interagency participation. More interagency participation is planned but the relatively short time frame may negatively impact on the quality of the information available to support the debate.
- o The Moon/Mars initiative will clearly have a major fiscal impact and could in the future place a strain on the US space and space-related industrial base. These factors could negatively impact on the resources available to support national security space programs.
- o On the other hand, serious consideration is being given to the possibility that the USSR will be a major participant in the initiative. Although this might lessen the strain on US resources, there are serious concerns about potential technology transfer and the potential negative effect on the US space infrastructure if a US heavy-lift launch vehicle is not developed because of plans to use the existing Soviet vehicle instead.

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Likely Agency Positions

- o We assume that the agency comments at the PIRC are representative. Note that however, that DoD did not comment at the PIRC. (We understand OSD staff had recommended, for example, that DoD express concern about the rapid pace of the process.)

Recommended Talking Points

- o There is no urgent need to comment at this time.
- o If you wish to make a comment, we suggest that you point out that the decisions on cooperation with the USSR are complex and difficult. We should not commit to such cooperation without a careful consideration of all the relevant factors. The Intelligence Community is committed to provide whatever intelligence analyses and assessments are needed to support this process.

Attachments:

- Tab A. National Space Council Memo, dtd 16 Oct 89
- Tab B. PIRC MFR, dtd 24 Oct 89
- Tab C. PIRC Memo, dtd 16 Oct 89
- Tab D. PIRC Attendees
- Tab E. View Graphs
- Tab F. Soviet Space Program Summary (S/NF)
- Tab G. Chinese Space Program Summary (S/NF/WN)

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SUBJECT: Point Paper for National Space Council Meeting - 26 October 1989

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Executive Registry

89-4195

NATIONAL SPACE COUNCIL
EXECUTIVE OFFICE OF THE PRESIDENT
WASHINGTON, D.C. 20500

October 16, 1989

MEMORANDUM FOR MR. J. STAPLETON ROY
Executive Secretary
Department of State

MR. G. PHILIP HUGHES
Executive Secretary
National Security Council

MS. EMILY L. WALKER
Executive Secretary
Department of Treasury

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Space Administration

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Executive Secretary
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SUBJECT: National Space Council Meeting

The Vice President will chair a one hour meeting of the National Space Council on October 26, 1989, beginning at 10:30 a.m., to discuss policy issues associated with the President's Space Exploration Initiative. The meeting will be in the Vice President's OEOB Office, room 272. Attendance will be limited to principal, plus one. Please provide names of meeting attendees to Cynthia Chase at 395-6175, by noon, Wednesday, October 25.


MARK J. ALBRECHT
Executive Secretary

2

B

ICS 4337-89
24 October 1989

MEMORANDUM FOR THE RECORD

SUBJECT: Policy and Implementation Review Committee (PIRC) Meeting,
20 October 1989

1. The subject meeting was held at 1300 hours in Room 308, OEOB. The meeting announcement and attendees are at Attachments A and B, respectively. The Director, Intelligence Community Staff, Lt Gen Heinz, represented the DCI. The undersigned was also in attendance.

2. The Chairman, Dr. Mark Albrecht, Executive Secretary of the National Space Council, opened the meeting with a review of current Space Council activities and topics that will be considered in the near future. Current activities of interest included:

- o The Space Council staff has been active in the appropriations process. Dr. Albrecht felt that space has done well. NASA has a 14 percent increase, including \$1.8 billion for the Space Station. Most of the funds for Landsat are available. There is, however, a major funding shortfall for the National Aerospace Plane (NASP).
- o The updated National Space Policy is on the President's desk and his signature is expected shortly. An unclassified version of the policy is also available for release; however, the short summary is still in work.
- o The joint Department of Defense/Department of Commerce study on Landsat Implementation Options is almost complete.
- o The Space Council Staff is outlining the Council's Annual Report, which is planned to be produced in January/February 1990.

3. Dr. Albrecht continued with a summary of topics that will be considered in the near future:

- o Implementation Strategy for Commercial Space Policy--Will start after the first of the year. Courtney Stadd will join the Space Council staff to lead this effort.
- o Launch Strategy--not clear what will be done or when.

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SUBJECT: Policy and Implementation Review Committee (PIRC) Meeting,
20 October 1989

o Two Congressionally Mandated Studies

- Launch of US satellites by the PRC and the USSR,
- Space control and assured mission capability.

4. Dr. Albrecht then continued with a review of Space Council planning in support of the President's Space Exploration initiative using the charts that are at Attachment C.

- o Discussing the schedule chart, Dr. Albrecht pointed out that he anticipated five Space Council meetings between now and the first of the year. The first one is planned for 26 October and will cover much of the same information as in this 20 October PIRC meeting. In mid-November he expected Admiral Truly to give a report on NASA's technical work. In December he anticipated three meetings to discuss the subjects of the three policy papers being prepared by the Executive Office of the President--Mission Planning, International, and Management.
- o Dr. Albrecht also pointed out that the Space Council meetings would not be decision meetings but were intended to allow the members to state their views and provide advice. He hoped that the President could also attend.
- o Presidential decisions, to be documented in a Space Policy Directive, would be made after the first of the year. (Note: This means that the decisions could be reflected in the State of the Union address and the FY 1991 budget.)

5. About thirty minutes of discussion of the Moon/Mars initiative followed with key points noted below:

- o NASA asked about the role of the PIRC. Albrecht's response was that it would, as required, continue to prepare issues for the Space Council.
- o Department of Transportation stated there needs to be a mechanism for the private sector to participate in Space Council planning. Also asked about the rationale for a US/USSR partnership (since it might mean that the US would forego development of its own heavy lift launch vehicle).
- o OMB stated that:
 - We need a full range of options that recognize fiscal realities (FY 1991 very difficult problem).

SUBJECT: Policy and Implementation Review Committee (PIRC) Meeting,
20 October 1989

- We need to focus on technology development rather than on the choice of a particular option.
- Space Station encountering much resistance on the Hill. We need a better rationale for it, how it relates to the Moon/Mars initiative, and what we have to do to modify it for that mission.
- o NASA and State followed up on the Space Station issue. NASA pointed out that the Space Station is essential for Moon/Mars. Current version cannot support this mission now, but it can evolve to do it. This is a sensitive political and international issue. State pointed out that we need to focus on the specific new characteristics that are needed, get realistic estimates of the funds needed, and establish credibility with our international partners.
- o State said that our initial focus internationally should be on our traditional partners. We also need to decide whether or not we would be willing to undertake the program alone.



Deputy Director
Planning and Policy Office

STAT

Attachments:

- A. Meeting Announcements
- B. List of Attendees
- C. View Graphs

SUBJECT: Policy and Implementation Review Committee (PIRC) Meeting,
20 October 1989

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(24 October 1989)

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Executive Registry

89-4192

NATIONAL SPACE COUNCIL
EXECUTIVE OFFICE OF THE PRESIDENT
WASHINGTON, D.C. 20508

October 16, 1989

MEMORANDUM FOR POLICY AND IMPLEMENTATION REVIEW COMMITTEE
MEMBERS

SUBJECT: Policy and Implementation Review Committee
Meeting

A one hour meeting of the Policy and Implementation Review
Committee (PIRC) is scheduled for Friday, October 20, 1989, at
1:00 p.m. in room 208, OEOB.

The tentative agenda for committee consideration includes:

- a. Planning to support Space Council consideration of
policy issues associated with the President's Space
Exploration Initiative.
- b. A general discussion of candidate topics for future
space council consideration.

Attendance will be limited to principal, plus one. Please
provide names and dates of birth of meeting attendees to Cynthia
Chase at 395-6175, by noon, Thursday, October 19.


MARK J. ALBRECHT
Executive Secretary

(2)

D

Attendees at
Policy and Implementation Review Committee Meeting

Treasury

The Honorable Sidney L. Jones

Commerce

Mr. Richard Del Bello

OMB

The Honorable Robert E. Grady

NASA

Mr. Kenneth S. Pedersen

OSTP

Ms. Judy Bostock

State

Mr. Fred Bernthal

Defense

Mr. Steve Hadley (Marty Faga)

Transportation

Ms. Stephanie Lee-Miller

National Security Council

The Honorable Arnold Kanter

DCI

Lieutenant General Edward J. Heinz

JCS

Brigadier General Jerome Jones

24Oct89

E

PRESIDENT BUSH'S JULY 20, 1989 TASKING TO THE
NATIONAL SPACE COUNCIL

O THE VICE PRESIDENT WILL LEAD THE SPACE COUNCIL IN
DETERMINING:

O THE NECESSARY MONEY, MANPOWER AND MATERIAL

O THE FEASIBILITY OF INTERNATIONAL COOPERATION

O REALISTIC TIMETABLES AND MILESTONES ALONG THE WAY

O REPORT AS SOON AS POSSIBLE WITH CONCRETE
RECOMMENDATIONS FOR CONTINUING COURSE TO MOON,
MARS AND BEYOND

BACKGROUND

SPACE COUNCIL STRATEGIC PLANNING

— PREVIOUS STUDIES PROVIDE BASIS FOR PLANNING

1986 -- NATIONAL COMMISSION ON SPACE

1987 -- "RIDE" REPORT

1988 -- NATIONAL ACADEMY RECOMMENDATIONS

1989 -- NASA REPORT TO THE VICE PRESIDENT

— EXPLORATION PROGRAM WILL REQUIRE VERY LARGE,
VERY LONG-TERM COMMITMENT

-- IT WILL SHAPE THE U.S. CIVIL SPACE PROGRAM
FOR THE FORESEEABLE FUTURE

CHALLENGES

- o CHOOSING, FROM AMONG MANY ALTERNATIVES, THE RIGHT PATH TO MEET THE PRESIDENT'S GOALS
 - FOR MOON AND MARS EXPLORATION
 - FOR OTHER NATIONAL OBJECTIVES

- o SETTING OVERALL DIRECTION
 - BUILDING THE ENDURING CONSENSUS TO SUPPORT THE PRESIDENT'S GOALS
 - EXPLORING PROGRAM OPTIONS
 - IDENTIFYING ENABLING TECHNOLOGIES
 - ESTABLISHING THE RIGHT INSTITUTIONS
 - UNDERSTANDING OUR GOALS FOR INTERNATIONAL PARTNERSHIPS

APPROACH

- o DELIBERATE PROCESS – NO RACE
- o AVOID TEMPTATION TO ANSWER ALL QUESTIONS AT ONCE
- o FOCUS ON NEAR-TERM, PROGRAM SHAPING DECISIONS TO PROVIDE A CONTEXT FOR FUTURE DETAILED MISSION PLANNING
- o SEEK ROBUST ALTERNATIVES -- AVOID PREMATURELY FORECLOSING POLICY/TECHNICAL CHOICES
- o DEVELOP DATA TO ASSIST WHITE HOUSE FORMULATION OF ISSUES FOR SPACE COUNCIL CONSIDERATION
 - NASA TECHNICAL ANALYSIS
 - EOP POLICY ANALYSIS

EOP POLICY ANALYSIS

MISSION PLANNING

INTERNATIONAL

MANAGEMENT

GOALS AND OBJECTIVES

PRIORITIES AND CONSTRAINTS

- SCHEDULE DRIVEN
- COST CONSTRAINED
- TECHNOLOGY-FORCING

ROBUST TECHNICAL
ALTERNATIVES

OPPORTUNITIES

- FRIENDS AND ALLIES
- USSR

POTENTIAL
CONTRIBUTIONS

RISKS

BUILD ON STRENGTHS

ADAPT INFRASTRUCTURE

- ACQUISITION
- INSTITUTION
- INDUSTRY
- PERSONNEL

UTILIZE PRIVATE
SECTOR

NASA TECHNICAL ANALYSIS

TECHNICAL REFERENCE INFORMATION

- o EXPLORATION PROGRAM OPTIONS
- o SCIENCE
- o TECHNOLOGY
- o LIFE SCIENCES
- o INFRASTRUCTURE
- o COST AND RESOURCE IMPLICATIONS

TENTATIVE SCHEDULE

SPACE COUNCIL MEETINGS IN NOVEMBER AND DECEMBER

PROCESS
NASA REFERENCE CASE RESULTS
INTERNATIONAL COOPERATION
MISSION PLANNING
MANAGEMENT

SPACE POLICY DIRECTIVE, PROBABLY EARLY 1990

OCT 6 1989

Soviet Space Program: A Summary [redacted]

25X1

Present Capabilities

For over a decade, the Soviets have been conducting space launches at a rate of about 90 to 100 per year. They currently maintain over 170 active satellites in orbit. The infrastructure to support their space operations has steadily developed over the past 30 years into one with a substantial amount of flexibility and growth potential.

[redacted]

25X1

We estimate about two percent of the Soviet gross national product is currently devoted to their space program. In 1988, this was estimated to be equivalent to about \$22 billion US dollars, two-thirds of which was allocated to military space programs.

[redacted]

25X1

Space Launch Systems

The Soviets have 10 operational space boosters to support their space launch requirements (see figure 1). Thrust values, propellant types, and dimensions are given in Table 1. With the exception of the two newest boosters, the SL-16 and SL-17 which were designed in the late 1970s, all Soviet boosters are based on simple, well proven technology dating from the late 1950s and early 1960s. This has allowed them to achieve a launch vehicle reliability of over 95 percent for the past 20 years. Their current payload capacity and booster production capability far outstrip demands.

[redacted]

25X1

The Soviets will also have an operational space shuttle orbiter in the 1990s, but we do not expect it to be used extensively for deploying satellites. Its primary contribution will be its capability to return up to 15,000 kilograms of payload to Earth in its cargo bay. This will give them the capability to retrieve satellites or experimental platforms from orbit or return the products of a space-based manufacturing endeavor.

[redacted]

25X1

Satellites

In general, Soviet spacecraft are physically sturdy, heavy, and of only moderate sophistication by Western standards, but they comprise a balanced fleet that satisfies military, intelligence, and civil requirements. Figure 2 presents a breakdown by mission-type of the 108 satellites launched in 1988, a nominal year.

[redacted]

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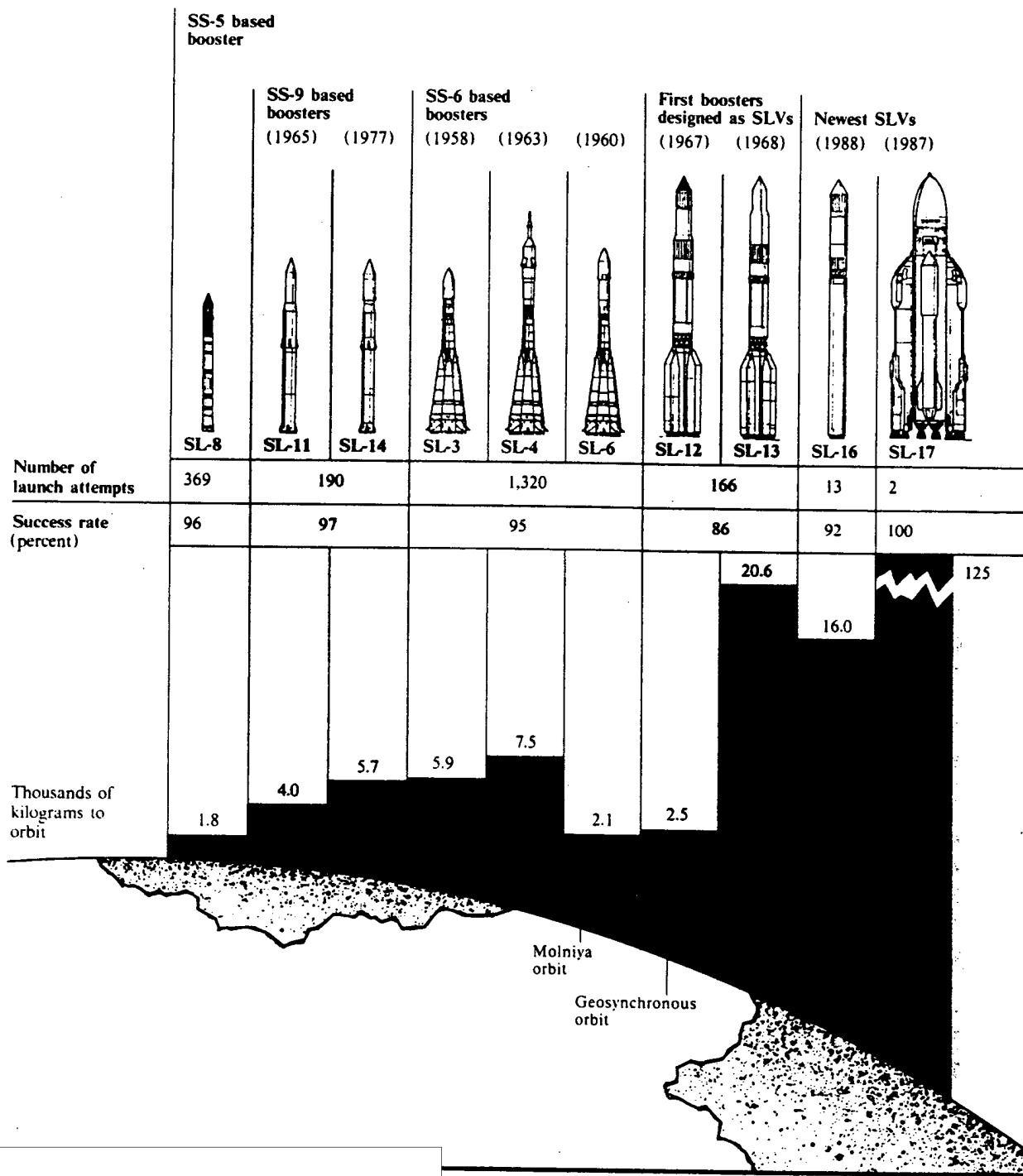
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Figure 1

Soviet Launch Vehicles: The Building Blocks



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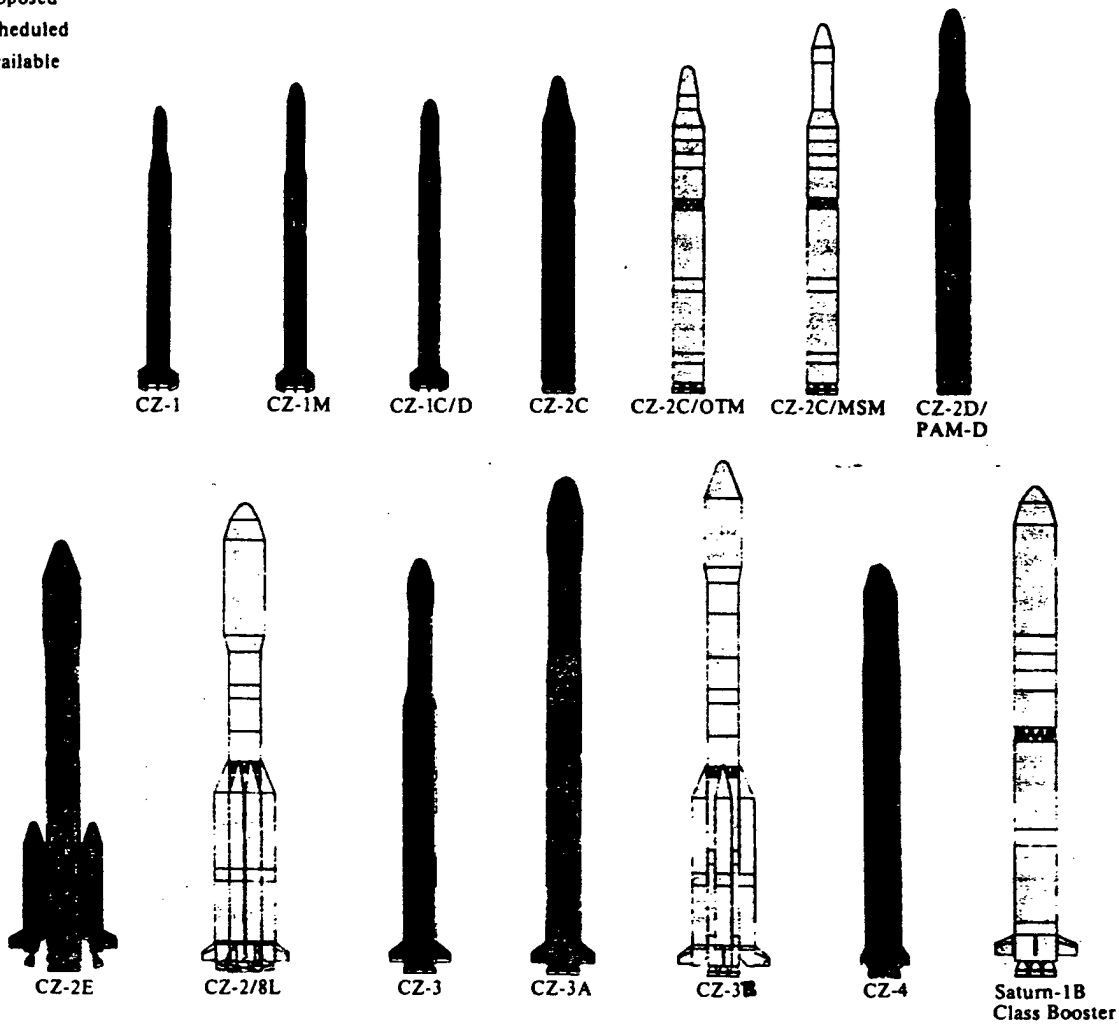
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Secret

Figure 1
China's Long March Family of Space Launch Vehicles

□ Proposed
■ Scheduled
■ Available



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16	D/Ex Staff				
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SUSPENSE _____

Date

Remarks

For EA/DCI-- Please advise who our attendees will be. ES will notify Ms. Chase. *WV*

IC will pull together package

ER 89-4193

DCI + Guntz

[Signature]
 Executive Secretary
 17 Oct '89

Date

3637 (10-81)

Executive Registry
89-4193

NATIONAL SPACE COUNCIL
EXECUTIVE OFFICE OF THE PRESIDENT
WASHINGTON, D.C. 20500

October 16, 1989

MEMORANDUM FOR MR. J. STAPLETON ROY
Executive Secretary
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MARK J. ALBRECHT
Executive Secretary

DCI
EXEC
REG

ROUTING SLIP

TO:

		ACTION	INFO	DATE	INITIAL
1	DCI	X			
2	DDCI		X		
3	EXDIR				
4	D/ICS		X		
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8	DDS&T				
9	Chm/NIC				
10	GC				
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12	Compt				
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SUSPENSE _____		Date _____			

Remarks For EA/DCI-- Please advise who our attendees will be. ES will notify Ms. Chase.

ER 89-4193

[Signature]
 Executive Secretary
 17 Oct '89

 Date

3637 (10-81)

ROUTING SLIP

TO:

		ACTION	INFO	DATE	INITIAL
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2	DDCI		X		
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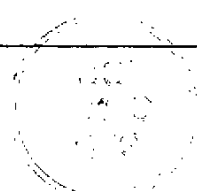
Date

Remarks

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DDCI and LTG Heinz will attend.

ER 89-4193



[Signature]
Executive Secretary
17 Oct '89

Date

3637 (10-81)

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NATIONAL SPACE COUNCIL
EXECUTIVE OFFICE OF THE PRESIDENT
WASHINGTON, D.C. 20500

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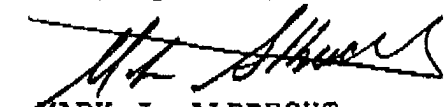
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MARK J. ALBRECHT
Executive Secretary

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DCI
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