

THE JOINT CHIEFS OF STAFF WASHINGTON D C 20201

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JCSM-211-83 15 July 1983

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MEMORANDUM FOR THE SECRETARY OF DEPENSE

Subject: Assessment Of the Risks and Benefits in the Transfer of Advanced Technology and Conventional Arms to China (U)

1. (6) On 9 June 1983, the President directed that an interagency group be formed under the Director of Political-Military Affairs, NSC, to establish the national security framework for technology transfer to the PRC. At the first meeting of this interagency group on 15 June, four tasks were assigned to the Joint Chiefs of Staff:

- a. (5) Assess the impact of technology transfer and conventional arms sales on the Sino-Soviet and Sino-United States military balance.
- b. (6) bevelop an analytical framework for evaluating the net strategic impact of conventional arms and technology transfers across a broad range of technologies.
- c. (3) Redefine credible threat to US interests, taking into account the above analysis.
- d. (a) Establish a more rigorous subdefinition of the Special Mission Areas.
- 2. (8) The assessment in Enclosure A was drafted by the Joint Staff in conjunction with the Services and DIA and was coordinated with NSA and OSD. It analyzes the probable effect on Chinese military capabilities of the recent decision to liberalize policy on technology transfer to the PRC. Based on this analysis, it addresses the questions posed by the other NSC taskings.
- . 3. (U) The Joint Chiefs of Staff recommend that:
 - a. (3) The JCS Assessment of the Benefits and Risks in the Transfer of Technology and Conventional Arms to the People's Republic of China in Enclosure A be adopted as the DOD position.

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b. 187 A memorandum, substantially like that in Enclosure B, be forwarded with Enclosure A to the Assistant to the President for National Security Affairs by 16 July 1983.

Por the Joint Chiefs of Staff:

JOHN W. VESSEY, JR.

Chairman

Joint Chiefs of Staff

Attachments

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JCS ASSESSMENT OF THE BENEFITS AND RISKS IN THE TRANSFER OF ADVANCED TECHNLOGY AND CONVENTIONAL ARMS TO THE PEOPLE'S REPUBLIC OF CHINA

TABLE OF CONTENTS

	PAGE
Executive Summary and Conclusions	1
Introduction	
Section IStrategic Assessment	
1. Introduction	
2. Definitions	1-3
3. Underlying Judgments	
4. Current and Projected Military Capabiliti	es 1-6
a. Nuclear Forces b. Conventional Forces c. Air Porces/Strategic Air Defense d. Naval Porces	I-6 I-16 I-26 I-34
5. Conclusions	1-39
Section IICredible Threats	1.4
Section IIISpecial Hission Areas	111-1
Section IVAnalytical Framework	IV-1
1. Introduction and Summary	.IV-1
2. Discussion	JV-2
3. Framework for Analysta	17-5

Table of Contents

JCS ASSESSMENT OF THE BENEFITS AND RISKS IN THE TRANSFER OF ADVANCED TECHNOLOGY AND CONVENTIONAL ARMS TO THE PEOPLE'S REPUBLIC OF CHINA (U)	, <u>L</u> 2
EXECUTIVE SUMMARY AND CONCLUSIONS	4
. 1. (5) Purpose. The purpose of this study is to provide a	5
JCS assessment, in response to tasking by the National	<u>6</u>
Security Council, of the benefits and risks associated with	
the transfer of advanced dual-use technology and	<u>e</u>
conventional arms to the People's Republic of China (PRC).	`. <u>9</u>
2. PDY <u>Overview</u> . US export policy toward the PRC is aimed	10
at supporting China's national development insofar as it	<u>11</u>
maintains China as a counterweight to Soviet power, while	12
keeping risks to US and allied security at a manageable	<u>13</u>
level. The transfer of advanced Lechnology to the PRC	14
involves some degree of increased risk to US and allied	15
interests and security, but is balanced by the benefits of	16
maintaining China's ability to counter the growing Soviet	17
threat, continuing the PRC's strategic orientation toward	18
the West and against the Soviet Union, and furthering the	19
integration of China into the world economy.	20
3. (C) Problems. In order to develop a US Government policy	31
that would allow substantial liberalization of technology	22
transfer to the PRC, the National Security Council assigned	. 23
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four tasks to the Department of Decense and the Joint Chiefs	7
of Staff: The lift	. 2
a. TST Assess the impact of technology transfer and	``3
conventional arms sales on the Sino-Soviet and Sino-US	. 4
military balance.	<u>5</u>
b. 45 Develop an analytical framework for evaluating the	. <u>6</u>
net strategic impact of conventional arms and technology	2
transfers across a broad range of technologies.	<u>. 8</u>
c. (S) Redefine credible threat to US interests; taking	<u>9</u>
into account the above analysis.	- <u>10</u>
d. 487 Establish a more rigorous subdefinition of whe	11
Special Mission Areas.	12
4. 157 Section I provides the assessment of the impact of	13
technology transfer and conventional arms sales on China's	14
military capabilities vis-a-vis the Soviet Union and the	· <u>15</u>
United States requested in the first task. The redefinition	16
of "credible threat" and the subdefinition of the Special	17
Mission Areas requested in the third and Courth tasks	` <u>18</u>
comprise Sections II and III, as they are needed to	77
establish the basis of the requested analytical framework	20
(second task). Section IV concludes this study by setting	21
fouth an analytical framework for evaluating the net	22
strategic impact of conventional arms and technology	2.]
Fanafers across a broad range of rechnologies.	24

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(0	Conclusions	•
а.	(U) Section I: Strategic Assessment	2
	(1) (S/NOFORC) No Chinese military capability 6	3
	developments are foreseen over the next two decades	
	that would appreciably alter the current military	`` 5
	imbalance between China and the Soviet Union. In	5
	certain areas, current gaps in technology and	
	capability may widen. Even with significantly	٤
	increased access to US military technology,	9
	improvements that could ultimately result in	70
	substantially upgraded defenses against the USSR would	11
	not be fully realized before the mid-1990s.	· <u>12</u>
	(2) (3) (3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	<u>13</u>
	defensive capability against conventional land	14
	invasion over the mext two decades regardless of the	15
	level of technology acquired. Improved mobility,	16
	communications, wir defense, and some new weapons will	17
	improve China's capability to contest an invasion from.	<u>18</u>
	more forward positions. However, the level of	13
	technology embodied in new Chinese weapons will remain	20
	appreciably inferior to that of the Soviet Union. In	21

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addition, it will take some time, probably not until	<u></u>
the mid-1990s, for China to thoroughly absorb and	2
begin work toward meaningful production and deployment	. 1
of systems based on most new technologies introduced	. 1
in the 1980s and for it to develop appropriate	<u>.</u>
atrategic concepts, doctrine, and training for the	<u>6</u>
effective employment of weapons based on those	2
technologies.	<u>8</u>
(3) 451 Transfer of Western dual-use technology and	<u>. 9</u>
conventional weapons systems will eventually raise the	10
level of Chinese military capabilities, but not	<u>11</u>
significantly increase the threat these may pose to US	12
forces. However, enhancements could impact	<u>13</u>
substantially on US allies and interestsmost	<u> 14</u>
notably, South Rorea and Talwan.	15
(4) (8/Norons). The most important effects of	16
significant liberalization in technology transfer	12
policy to China will not be manifest until the turn of	<u>18</u>
the century. At the mid-1990s point and beyond, the	. 19
synergistic effect of multiple technologies and	20
weapons systems, acquired openly or covertly, coupled	21
with faster than expected PRC technological progress,	. 22

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could pose serious threats to the United States, its	
allies, and its interests in the 21st century.	
b. 457 Section II: Credible Threat. To provide clear	
distinctions between two often confused concepts, the	
terms "threat" and "risk" have been defined. In May	
1983, the Joint Chiefs of Staff defined "major national	1. 1190 t
security risks in the transfer of technology as those	
that would permit enhancement of PRC military capa-	
bilities to a threatening level. This definition is	
valid and should be included as a consideration during .	11
the case review process. Other terms, such as credible	12
threat, " "credible risk, " and "major risk" should be	13
avolded.	Ľ
c. Ef Section III: Reassessment of the Special Mission	14
<u>Areas</u>	<u>15</u>
1. 157 The Special Mission Areas as originally defined	<u>16</u>
are inadequate to serve as a guideline for identifying	<u>17</u>
those technologies whose transfer would threaten US	18
interests. They are to broad, in that they have been	<u>1</u> 9
interpreted to include basic technologies, and too	- <u>20</u>
narrow, in that they do not address other technologies	~~ <u>21</u>
that China could use to develop threatening	22
Capable Cas	23

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Enclosure A

(a) 407 It is proposed that the Special Mission	. 2
Areas be replaced by *Critical Military	2
Capabilities* and include two additional	
categories: "power projection" and "air	1
superiority." The Critical Military Capabilities	5
would then include:	<u>6</u>
- Nuclear Weapons and Delivery Systems	7
- Electronic Warfare	8
- *s *	<u>9</u>
- Intelligence Collection	10
- Power Projection	7,7
- Air Superiority	12
(b) 156 Those types of technologies whose transfer	13
could be used by China to threaten US interests in	. 14
Critical Military Capabilities are:	15
- Basic Production Technologies at Their Most	16
Advanced Stages	17
- Military-Related State-of-the-Art Technologies	18
and Weapon Systems	19
- Mature, Sensitive Technologies	<u>20</u>
(c) A case-by-case review of all weapons	. <u>21</u>
systems and military-related technologies is	· <u>22</u>
required.	~~ 23
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그렇지 그렇지 않는 그렇지만 그렇게 하고 물어져서 가득한 다음이 그 그래요? 이 생산다는 사람들은 사무였다.	** **

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2. (a) Two other phrases in the 4 June 1981	
Presidential directive whose use has led to confusion	. 2
• should be replaced:	3
(a) SP Replace "minimize national security risk"	4
with *maintaining national security risk at a .	5
manageable level."	6
(b) 😂 Drop the "two times rule."	1
d. (S) Analytical Framework. A two-stage analytical	2
framework has been developed for evaluating technology and	. 9
weapon system transfers.	10
(1) (S) Determination of whether the license requests	11
 Involves a technology in one of three Sensitive 	12
Technological Areas:	<u>13</u>
a. Basic Production Technology.	14
b. Military-Related Technologies and Weapon Systems.	15
c. Mature, Sensitive Technologies.	16
(2) 457 If a request falls in the third Sensitive	17
Technological Area, rejection is recommended. License	18
requests in the first two Sensitive Technological Areas	19
are to be subjected to a Criteria Checklist that takes	20
into account the overall and regional strategic	21

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balances, the ability of the United States to maintain superiority in the Critical Military Capabilities (as determined by the DOD), and the general state of relations.

(3) (5) If the license request satisfies these conditions, approval is recommended.

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Enclosure A

INTRODUCTION (U)

1. (Symptomy) US export policy toward the PRC is simed at supporting China's national development as a counter-weight to Soviet power, while keeping risks to US and allied security at a manageable level. This policy derives from a primary national interest: developing an effective relationship with China benefits the United States and complicates Soviet military planning. At the same time, there is concern that a too liberal export policy could be exploited by the PRC to develop capabilities that would threaten US and allied interests.

2. (5) NOPORN)—This concern is tempered both by the demonstrated ability of the PRC to develop some weapon programs without assistance from the West, its ability to obtain some technologies covertly, and its difficulties in developing most advanced technology and modern weapons systems. In short, the transfer of advanced technology to the PRC involves some degree of increased risk to US and allied interests and security. This is balanced by benefits of increasing the PRC's ability to counter the Soviet threat and the continuing integration of China into the world economy.

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3. (5) In order to develop a US Government policy that would	1
allow substantial liberalization of technology transfer to	2
the PRC, the NSC assigned four tasks to the Department of	
Defense and the Joint Chiefs of Staff:	*
a. 407 Assess the impact of technology transfer and	
5 conventional arms sales on the Sino-Soviet and Sino-	· <u>£</u>
United States military balance.	. 2
b. 15 Develop an analytical framework for evaluating the	9
net strategic impacr of conventional arms and technology	<u> </u>
transfers across a broad range of technologies.	10
C. 457 Redefine credible threat to US interests, taking	11
into account the above analysis.	12
d. 161 Hore rigorous subdefinition of the Special Mission	13
Acces.	14
4. 187 An assessment of the impact of technology transfer	15,
and conventional arms sales on China's military capabilities	<u>16</u>
vis-a-vis the Soviet Union and the United States forms the	<u>17</u>
basis for this report. The redefinition of "credible"	18.
threat" and the subdefinition of the Special Mission Areas	<u>19</u>
requested in the third and fourth tasks comprise Sec ins II	20
	21

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requested analytical framework (second task). Section IV concludes this study by setting forth the analytical framework for evaluating the net strategic impact of conventional arms and technology transfers across a broad range of technologies.

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SECTION ISTRATEGIC ASSESSMENT (U)	Ŧ
1. (6) Introduction. This section examines the impact on	2
China's military capabilities of available Western	
technology and the effect of a substantially liberalized US	4
export control policy on the Sino-Soviet and Sino-United	5
States military balances. To make this assessment, certain	6
judgments and assumptions regarding future Sino-American	7
relations and other factors have necessarily been made. The	8
section assesses the likely priority, objectives, and	9
qualitative improvements to Chinese forces, with special	10
reference to the Sino-Soviet military balance and impact on	11
US interests. While US understanding of current Chinese	12
military and industrial capabilities is sound, the	13
assessment of future Chinese force development is	11
necessarily judgmental.	15
a. This section examines the 10- and 20-year impact of	16
US technology transfer policy on chinese military	17
capab'lities by contrasting the results of two	18
hypothetical cases of technology transfer policy to	19
China:	

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(1) Projections of expected PRC silitary develop-
ments under a continuation of recent US policy
regarding technology levels in terms of quantity and
quality that China had access to in 1980-1982; i.e.,
if China were to remain in Category P and be afforded
access to technology at approximately twice the level
available to the Soviet Union prior to its invasion of
Afghanistan.
. (2) 40, Substantially liberalized Chinese access to
that level and quantity of military related and duar-
use technology available on the world market,
excluding those technologies that the United States
rigorously controls or shares only with its closest
allies.
b, (s/noron); It should be emphasized that sechnology not
already in China's possession is unlikely to be widely
deployed within the next ten years. Furthermore, the
latter half of the 1990s seems to be the period most
likely for initiation of military developments which will
appear as hardware in the first half of the next century.

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The quantity and sophistication of technology transferred now will be critical in shaping the capabilities China. will have in its own right in excess of 20 years downstream. 2. (U) Definitions a. (U) Technology. For the purposes of this study, technology is defined as arrays of know-how (including design and manufacturing know-how); inspection, or test equipment; materials; or goods that can be used in the design, production, maintenance or operation of military 10 11 materia! or weapons. b. et Risk vs Threat. An important distinction that 12 will be made throughout this study is between the terms 13 "risk" and "threat.' Any move that increases the 14 military capability of the PRC entails some risk to the 15 United States These r'sks remain manageable if the 16 ability of the United States to defend its interests is 17 nor called into question By contrast, a threat ensues 18 when the PRC develops a capability to jeopardize either 17. US interests or the ability of the US to detend its 2 U

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interests.

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3. Is Andrews Underlying Judgments. In assessing the impact of technology transfer to China under each of these cases, certain underlying estimative judgments have been made recently by the US intelligence community. These judgments provide the assumptions that form the parameters for China's possible future.

7 a. 45/4000007 While China will undergo major national leadership changes during the next 10 years, internal 9 political stability, the present orientation toward 10 modernization, and nonalignment with the Soviet Union 11 will likely endure into the 1990s. China's domestic 12 situation through the remainder of that decade cannot be 13 estimated with the same degree of confidence. 14 b. (S/NOFORN) China's drive toward modernization is 15 serious and broadbased, possessing a unified top_leader-15 ship commitment to successful fulfillment of its action-17 lated goals over the long term. In this context, 18 military modernization programs will continue, some with 19 particularly high priority. Primary emphasis will be on 20 the development of a modern industrial base to eventually 21 support a self-reliant defense industry. Most improve-22 ments in Chinese military capabilities will be based on

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Enclosure A

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indigenous Chinese efforts utilizing acquired Western technology. In the military sector, the large scale purchases of end-items, turn-key manufacturing plants, and co-production agreements with extensive technical/ advisory assistance are considered unlikely. c. (S/NOFORN) In the coming decade, Chinese modernization programs and resource allocation priorities will remain essentially the same. Barring an immediate military. threat to PRC security, defense modernization will continue to occupy a lower priority than agricultural, 10 industrial, and scientific and technical modernization. By the early 1990s, China will still be in the early 12 phases of its comprehensive modernization program. 13 d. TS/NOTOKN) Overall Chinese capacity to assimilate 14 advanced technology and to translate that technology into 15 fielded systems will remain modest into the early 1990s. 15 Exceptions to this may occur in a few selected high 17 priority areas, such as strategic missile systems, where 78 concentration of resources and effort is expected to 19 yield significant advances. 20

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e. (a/Noronn) Advanced technology once transferred to China is now, and will continue to be, disseminated according to Chinese priorities without regard to declared end-users at the time of transfer.

f. (S/NOFORN) While there may be improvements in Sino-Soviet relations, the USSR will remain China's primary long-term threat. Therefore, the country most affected by transfer of US (and/or Western) high technology to Chinese wespons developmen. programs will be the Soviet Union. However, technology transfer also has the potential for affecting US interests.

g. (S/NOFORN) The secondary threat to PRC security will continue to be Vietnam

- 4. (S)—Current and Projected Military Capabilities. This portion of the study outlines China's present strategic and general purpose force capabilities as they elate to the United States, Soviet Union, and US allies and interests in Asia It assesses China's progress toward expanded military capabilities under present conditions of technology access and under conditions of substantially liberalized access.
 - a. (U) NUCLEAR FORCES
 - (1) (S/NOPOGN) All of the USSR and the United States is within the range of China's small force of intercontinental range ballistic missiles. The larger

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MRBM/IRBM force can target the Soviet Union east of the Urals and all of Asia. Low system accuracy in all weapons dictates countervalue targeting. China has no credible early warning capability, but hardness, concealment, deception, and MRBM/IRBM mobility provide some assurance of the survival of retaliatory capability even in the event of surprise attack. China cannot execute a quick reaction launch, destroy hardened targets, or effectively retarget its 10 missiles. SSBNs/SIBMs will not be a real factor until 11 at least the late 1980s. (2) (3/NOFORM) Nuclear Force Developments Under Existing Transfer Policy. During the next 10 years, given existing access to Lechnology, China's nuclear 15 capabilities wil! continue to grow. Enhancement of 16 nuclear force capability is a key nationa' objective. 17 Economic retrenchments since 1980 have had little 18 effect on programs to improve these forces. China's 19 research and development programs for strategic and 20 tactical nuclear weapons will benefit from increased 21 funds allocated to education and industrial and 22 scientific modernization, but continued access to ... 23 foreign technology will be required to significantly improve its nuclear weapons and delivery systems. It

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e Fireways of ouclear military	Ţ
should be emphazed that improvement of nuclear military	2
systems has been given a much higher priority than other	3
military modernization programs, so that it is not	4
dependent on direct or diverted transfer of foreign	-
technology. A combination of domestic RiD resources and	5
covertly acquired foreign technology should be sufficient	<u>6</u>
for China to continue the measured upgrade and	7
modernization of its nuclear forces.	<u>8</u>
(3) (3/NOFORN) The most significant developments likely	<u>9</u> .
to occur over the next 10 years in Chinese strategic	10
forces are summarized below:	11
(a) By the early 1990s, China will have deployed as	<u>12</u>
many as 20 limited range ICBMs, 10 to 20 full range	13
그리는 물건 경기 시간 바다 이번 살빼보고 있다면 하는 사람들에게 되지 않고 있다면 하는 사람들이 없는 사람들이 있다면 하는데 하는데 살아보다면 하는데	14
ICBMs, and follow-on versions of bo.h.	<u> 15</u>
(b) Effectiveness of China's full range, ICBM may be	16
improved by .quipping the missile with multiple	1,
reencry vehicles (MRVs). China could do so by the	18
late 1980s.	٠ <u></u>
(c) CEPs (circular errors probable) of 1 kilometer or	19
more will continue to limit ICBMs to strikes against	20
countervalue targets.	21
(d) China probably will begin development of a solid-	22
propellant ICBM during the 1980s. Significant	23
deployment will not occur until the 1990s.	24
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(e) By 1990, China probably will have deployed a	
new solid-propellant IRBM with a range of some	
2,600 to 3,100 kilometers. It is estimated that	
about 30 of these missiles will be deployed by the	
mid-1990s, improving the mobility and surviv-	
ability of its land-based, intermediate range	
nuclear force.	
(f) The first nuclear-powered ballistic missile	
submarine (SSBN) will reach initial operational	
capability (IOC) between 1984 and 1987. It will	10
carry 1° submarine-launched ballistic missiles	1
(SLBMs) capable of delivering thermonuclear	13
weapons to a distance of about 2,400 kilometers.	, <u>1</u>
By the 1990s, China could have up to four	13
operational SSBNs, albeit of limited deployment	1:
capability.	16
(g) The Chinese will probably begin to equip some	17
inter=ediate-range TU-16 bombers with 100-km-	18
range, nuclear-armed air-to-surface missiles,	· <u>19</u>
possibly as early as 1986, making them a more	20
important part of China's nuclear forces. The	· <u>21</u>
capability of these bombers to penetrate modern	. 22
	2.3

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(h) During the latter half of the 1980s, China	*
probably will improve its capability for tactical	2
nuclear warfare by deploying short-range ballistic	. 2
missiles (SRBMs) and possibly by modifying other	4
Weapons, such as land-based and seaborne cruise	2
missiles, for tactical nuclear application	<u> </u>
Simultaneous development and deployment of all	2
these systems are unlikely.	. <u>B</u>
(i) China Will gradually enhance its strategic zir	<u>9</u>
defenses by deploying a small number of improved	10
qurface-to-air m'ssiles (SAMs), additional	<u>11</u>
fighter-interceptors, and aircraft equipped with	12
electronic counter-countermeasures (ECCM).	<u> 13</u>
(j) Chine will continue present programs for	14
improving strategic C3 capabilities by providing.	<u>1.</u> 5
more capid, cerundant, and survivable facilities	13
for communications between national authorities	<u> </u>
and operational units. They will include the use	<u>. 8</u>
of communications satell tes and new ground-based	19
systems derived from foreign technology now being	20
acquired.	21
(k) China probably will continue development of an	22
	23
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radiation bombs or missile warheads available as	
early as 1988.	•
(1) The number of deployed strategic systems is	
expected to remain small (60-120 total launchers).	
The pace of the strategic development will remain	
essentially at current levels. The technology	6
transferred at present levels will assist in	· <u>1</u>
modern'zing the force but not in accelerating its	8
deployment.	٤
(4) (L/NUFURN) Effect on the Sino Soviet and Sino-US	. <u>1</u> 0
Balance Under Existing Transfer Policy. Chinese	11
strategic systems and Soviet uncertainties regarding	12
their deployment will continue to deter Soviet nuclear	13
strikes, During the 1990s, Chinese strategic systems	1.
will continue to be developed for deterrence with the	15
capability of delivering retalia orv strikes against	ر از <u>6</u>
the entire Soviet Union, including Moscow. More	17
systems will be designed to penetrate Soviet ABM	18
complexes by using MRV/MIRV and penetrating aid	19
payloads. Deployment of a few SSBNs will add a new	20
dimension to Chinese system survivability, comp-	21
	22
licating Soviet planning and enhancing Chines:	23
deterrence, but they will not seriously threaten	

Soviet overall national security.

However, Soviet advances will be sufficient to maintain the present relative gap in capabilities, preventing China from gaining meaningful advantage in any aspect of strategic or tactical nuclear forces. (5) (3/NOTORY) The ICBM threat to the continental US will not significantly increase. The addition of mobile SRBMs, MRBMs, IRBMs and some tactical systems will increase the potential threat to US and allied ... Corces in Asia and give China increasing influence as a regiona! power. US advances will offset these new threats but deployment of appropriate counterforce systems may be required. China's development of tactical nuclear weapons will complicate US planning and operations for possible conflicts in Korea and elsewhere on China's periphery. (6) (c/NORORN) ('uclear Force Developments Under Liberalized Transfer Policy. It will not be possible

Liberalized Transfer Policy. It will not be possible for China to afford all of the military and military-related equipment and technology it desires. Even so, under conditions of greatly liberalized access to technology, Chinese nuclear force development priorities will remain generally the same as they are

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NUMBER OF PROPERTY WATERVILLS

now Chinese threat perception and force weaknesses suggest the following system related priorities would be pursued:

- (a) ICBM (reaction time, accuracy, survivability, MRV/MIRVs).
- (b) MR/IRBM (propulsion, accuracy, reaction time, retargeting capability, mobility).
- (c) SLBM (range, accuracy, MR"/MIRVa), SSBN
 performance.
 - - <u>a</u> Attitude control.
 - g. Maneuvering propulsion systems.
 - c. Inertial components such as gyroscopes
 - end accelerometers.

techniques.

SECRET 1-1

Enclosure A

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e. Sophisticated aerial mapping survey programs to allow more accurate ballistic missile targeting. f. Composite materials technology and filament winding techniques that could contribute to reducing the weight of missiles. · g. Manufacturing and design assistance for muulear submarines which could substan-10 tially improve SSBN/S\$N performance characteristics and reduce vulnerability to 12 detection. 13 2 /S/NOPORHY Depending on China's ability to 14 acquire or develop the appropriate tech-15 rologies and translate them into operational 1.6 restems, improved recuracy in ballistic missiles, development of MRV/MIRV capabilities, significant deployment of a solid 13 niopellent ICBM force and increased numbers, 20 range, and accuracy in the solid propellent 21 IRBM force can be expected under liberalized

transfer policy. Enhanced strategic air

SHERET 1-14 NOT RELEASABLE TO FORBION NAMEDWALD

Enclosure A

SECRET TO POSSICE MATIONALS

defenses--increased numbers of improved
surface-to-air missiles and fighterinterceptors--would be achievable. China
might revive attempts to develop, with greater
prospects for success, a ballistic missile
early warning system and antiballistic
missiles.

Balance Under Liberalized Transfer Policy. Improvements projected in Chihese nuclear forces under a liberalized policy will not close the gap in the Sino-Soviet halance. Soviet systems currently being developed and deployed, such as the SS-20, are sufficient to retain a large margin of superiority and could lower the value of the Chinese deterrent. China is, however, working to maintain its small but credible deterrent against Soviet strategic attack and in relative terms, to gain some measure of deterrence against Soviet use of taction nuclear systems.

Therefore, China is likely to continue its overt and covert acquisition of technologies that have application

SECRET I-15

Enclosure A

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to nuclear weapons development. Even with access to Western technology, China's force will remain limited in size and capability relative to the Soviet force. (8) (3/NOTORS) Even under the best conditions, Chinese nuclear forces will not approach the quantitative or qualitative levels of US systems. However, a more capable Chinese strategic force will complicate US nuclear targeting policy and planning. Likewise, it can become a significant factor in arms reduction progress between the US and Soviet Union. In addition more rapable Chinesa nuclear forces may increase fears among US allies of Chinese operation directed toward them. This increase in risk to US interests, inevitable in view of China's determination to upgrade its nuclear force, is more than balanced by the increased threat Chinese and Sowiet upgrades pose for each other

b. 6) CONVENTIONAL FORCES. Chinese conventional forces pose no direct threat to the security of the United States. However, they are capable of threatening, US interests and some of its allies. China has mounted, and

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Capable Out again gursting at miles the sective
perations in peripheral areas which could create
ituations involving superpower contention.
(1) Let China's conventional forces are large but out-
dated. Beijing wants to reduce the size while
improving the capabilities of its conventional
defenses. To this end China is stressing force
outbacks, training to better exploit existing weapons,
and improvements of old systems. Chinese forces are
also experimenting with new tactics and employment
doctrines. Nonetheless, conventional force
modernization will be a slow, evolving process which $\frac{1}{2}$
will take advantage of selected transfer of
technologies to augment domestic military development
and production. Broad based improvement in conven-
t'onal force capabilties are not expected until well
Into the 1990s.
(2) (6)(10) Cround Force Developments Under
Existing Transfer Policy China's gound forces are
Postured for defense Sacrificas of barrisons and

protracted conflict are the basis for coping with a

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Soviet land invasion. Although measures have been	-
taken to slow advancing enemy ground forces, and exact	2
heavy losses, China cannot now mount a forward	3_
territorial defense, and its key industrial and	4
political centers in the northeast remain vulnerable	5
This would be particularly true if tactical nuclear	<u>6</u>
weapons and chemical weapons are used against the	7
Chinese. China is not able to project its own forces	<u>8</u>
much beyond its immediate border areas. Ground forces	9
have major weaknesses in mobility, logistics, tactical	<u> 10</u>
CI NBC warfare defenses, antiair and antiarmor	. 11
defense, and joint service operations.	<u>12</u>
(3) -(3/Noronn) With existing access to technology.	13
gradual, systematic efforts at force improvement will	14
be aimed at insuring that Chinese ground forces	15
cetain, at a minimum, their current level of defensive	16
capability against potential threats. Although the	17
number of infantry and field artillery units will	<u> 18</u>
ircrease only slightly their operational proficiency,	19
will improve through more intensive training, better	<u>20</u>
leadership, and some improved equipment. Given	21
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Beijing's priorities for development, China will likely continue selective adaptation of available foreign military and dual-use technology to improve existing systems. In certain key areas, the Chinese may consider outright purchase of entire systems, or critical components thereof, although the expense involved makes this option less desirable. (a) (s/rorow) More specifically, during the next 9 .O years the Chinese will concinue gradually to 10 upgrade armor, antitank capabilities, and overall uround force mobility. This will be accomplished 12 primarily through continuing, and possibly 13 expanding, indigenous development programs already in place. These programs involve the increased 15 production of tanks and APCs, antitank guided 10 missiles (ATGMs) (perhaps including helicopter-11 mounted models) modest amounts of self propelled 18 notillery, and more transport and bridging equip-1.9 mant. The selective incorporation of mechanized 20 infantry units into the force also will continue. 21 (b) (3/NOTOTA) Generally, progress will be linked 22

to success in overcoming larger economic and

SECRET I-19
NOT REPEASABLE TO FOREIGN NATIONAL

technological constraints. China has had	Ţ
difficulty in bringing major new end items into	2
serial production because of infrastructural	` 3
weaknesses. This is illustrated by the problems	4
the Chinese have encountered in developing a new,	<u>5</u>
more modern main battle tank (MBT). Such a tank	<u>6</u>
has been under development for over a decade.	2
7nicial plans probably were based on reverse-	<u>8</u>
eng'nearing of the Sovie T-6? or perhaps an errly	9
version of the T-64, Large-scale production would	~ <u>10</u>
have required extensive retooling and, based on	11
China's technical ability, could have developed a	<u>,12</u>
uenk only marginally better than the current	<u>!3</u>
Type-69 (an upgrade of the Soviet T-54). The	4.
Chinese apparently decided to produce the Type 69	<u>15</u>
'arler than a m-62 copy as an interim mersure	<u>*</u> 6
while continuing efforts to develop a more modern	. <u> /</u>
trik. China's recent incerest in highly sophisti-	10
rated foreign ranks is u. likely to result in	19
quantity purchases, because of budgetary	<u> 20</u>
restrictions and the wish to avoid dependence on	. 21

SECRET 1-20 TOT TOLERANDLE TO FOREIGN HATTONALS

other nations. Instead, China will seek proto-	Ţ
types. If a priority effort were made, a follow-	2
on tank with a modern gun; perhaps like the Soviet	. 2
115-mm (T-62) or the Western 105-mm, could be	. 4
deployed by the mid-1990s. This tank would have	. <u>. 5</u>
fire control improvements, but it is unlikely that	<u> 6</u>
nonconventional armor or ammunition comparable to	2
that of most modern main battle tanks could be	<u>8</u>
produced In any case the degree of moderni-	<u>9</u>
ration achieved would depend largely on the amount	. 10
of foreign technology obtained and assimilated.	<u> 11</u>
te) (3/W0707M) In other priority weapons devel-	12
opment areas, the Chinese are expected to continue	13
deployment of the man-portable SaGGER-type ATGM,	14
while purchasing from foreign sorrces the smallest	<u>15</u>
number possible of a newer, more effective follow-	<u>16</u>
on AnGM, which likely would include an agreement	17
for lechnology acquisition and dicensed produc	18
tion. A mobile surface-to-air missile - w be.	19
deployed around 1985 and further development and	. <u>20</u>
ieployment of hand-held querame is likely.	

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improved infantry fighting vehicle during the	
1980s is also projected.	
(d) (37Noron) Ground force improvements over the	Managar at Applications of the Application of the A
longer termbeyond the early 1990swill likely	
continue to be gradual and modest, with top	
priority still on overcoming deficiencies in armor.	
and antiarmor, air defense, and mobility, using	
Western technological assistance to the extent it	
is available and affordable The Chinese will	
likely continue to rely on numbers to compensate	11
for the "echnical inferiority of their ground	<u>1</u>
forces, and the associated high cost of	<u>1</u>
modernization. Nevertheless, an expanded R&D and	1
production infrastructure should enable fielding	<u>1</u> .
of new generations of g ound force weaponry in	13
limited number by the mid 1990s. In particular, a	16
new main buttle tank based on Western designs is	1
expected to replace the interim Type-59 and	11
Tupe-69. There should also be new or greatly	19
improved upgrades of self propelled rield	20
artillery, ATGM's, MRLs, antiaircraft artillery,	2)

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Enclosure A

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and SAMs, and more extensive use of mechanization	<u>1</u>
and helicopters in support of ground operations.	. 2
(4) (S/NOTORN) Effect on Sino-Soviet and Sino-US	• 2
Balance Under Existing Transfer Policy. The new	4
decade will see China slightly improving its defensive	. 5
capability against a land invasion by the Soviet	<u>6</u>
Union, even though the Soviet forces along the border	7
have been increasing at the rate of roughly a division	. 8
every other year. This judgment is based on the	. <u>9</u>
Assessment that China will have an improved capability	<u>10</u>
to maneuver combined arms forces against an invader	11
and to contest an invasion from more forward posi-	<u>,15</u>
tions Gradual improvements in China's armored	13
forces the deployment of ATGMs, the mechanization of	14
several infantry divisions, and the improved ground	15
support and air-defense capabilities of the air forces	16
will give the Chinese greater defensive firepower and	<u>17</u>
flaxibility Still, the level of technology embodied	18
'n new Chinese weapons will remain appreciably	- <u>19</u>
inferior to those of the Soviet Union and will not	. 20
significantly alter the military balance. In	21

SECRET 1-23 NOT RELEASABLE TO FOREIGN MATIONALS

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NOT RELEASABLE TO FOREIGN NATIONALS

addition, it will take some time, probably not until	
the mid-1990s, for China to absorb thoroughly any	2
technologies introduced in the 1980s and for it to	. 2
develop production lines, doctrine, and training for	4
the effective employment of conventional weapons based	5
on these technologies.	ě
(5) (5) Chinese power projection capabilities will not	2
be significantly enhanced this decade and probably	\ <u>.</u>
into the 1990s. Training and doctrinal improvements	<u>, 9</u>
will result in better combined arms and joint service	<u>10</u>
capabilities However, the impact of Chinese ground .	<u>11</u>
force modernization will not appreciably affect US and	. <u>12</u>
allied security or interests through the 1990s.	· 73
(6) (5/NOPORT) Ground Force Developments Under	14
Liberalized Transfer Policy. Chinese priorities for	<u>15</u>
cround forces developments under conditions of	<u>16</u>
incleased access to Lechnology will remain much the	17
same as they are under existing conditions. The types	18
of equipment/technology listed below are China's	19
highest ground force priorities:	<u>20</u>

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1. Point defense/tactical surface-to-air	<u>1</u>
oisalles.	2
2. Modern antialrocaft guns.	. 3
3. Antitank guided missiles.	4
4. Logistics management techniques, automated	5
	<u>6</u>
5. Armored infantry fighting vehicles.	<u>7</u>
<u>3</u> . Improved art llery tubes	<u>8</u>
7. Counterbattery radars.	. 9
8 Tanks and tank engines.	<u>, 1</u> 0
9 Sclf-propelled guns	11
1 <u>0</u> . Night vision devices, optics.	12
(7) (E/Horolat) Effect on the Sino-Soviet Balance and	13
US Interests Under Liberalized T.ansfer Portcy. With	14
liberalized access, significantly improved antiarmor	15
ini lactical air defense rapability can be expected.	16
Betier mobility will be brought about through	1,
rcreased numbers of improved armored vehicles, self-	18
ropelled wrill ery, and mobile antitan: systems.	19
nitial deployment of a follow-on main battle	20
ank approaching the world standard, possibly	<u>21</u>
ncorporating nonconventional armor and near	22
그렇게 다른 아이들이 아는 점에 다꾸지 않는 이 하루바라면 내려가 되었다. 그는 회에 가득하게 가득했다. 그리아 이 나를 하는 것이다.	

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¥.	state-of-the-art munitions, would be possible by the	
	mid-1990s. It is emphasized that many of the	
	technologies listed above have been approved for	Section 1
	transfer, but China has not yet chosen to purchase	
	them. Thus, it appears that liberalized access will	
	not necessarily result in an appreciable upgrading of	
	ground forces unless Chinese procurement decisions are	
	changed. The relatively modest priority accorded	*******
	ground force modernization, and the vast size of the	
	force to be reequipped, makes the potential low for	· <u>1</u> (
	rny significant increase in risk to US interests and	11
	allies from transfers of advanced dual-use or	. 13
	conventional arms technology to PRC ground forces	13
•	C. (S/HOPORH) ATR FORCES/STRATEGIC AIR DEFENSE. China's	15
	al: forces are vapable of defending against most	15
	neighbo ing forces. China's large fighter to ce could	1,8
	probably exact a high cost, but not prevent destructive	1/
	hir strikes by the US o. USSR. Ching s own air power	. 8
	orojection is, for practical ourposes, limited to	19
	tactical fighter range. Bombers lack penetration aids	2.0

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and autonomous defenses. Obsolescent aircraft—early
model MiG-19s and MiG-21s are the best China has in
quantity—and their lack of ECM, modern sensors, and
modern weaponry represent significant weaknesses in
Chinese defenses and power projection capability. In
addition, poor low-altitude radar coverage, the inade—
quate strategic SAM system, the lack of point defense
SAMS C3 vulnerability to ECM, and a cumbersome air
defense battle managemen. system prevent oven China's
older model aircraft and existing ground-based defenses
from being used to cull advantage.

(1) (S/WOFORM) Air Force Developments Under Existing 12 Transfer Policy. The Chinese Air Force will improve 13 ts basic capabilities in every element of air power under existing conditions of technology access. 15 Advences in air-intercept radars and lire control 15 systems will be particularly notable during the 1980s. 1.7 as will be the arming of the entire fighter force with 18 air-to-a'r missiles (AAMs). These 'mprovements will. 19 flow from actions Beijing has already taken to gain 20 technology access and assistance from Western systems.

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Barly warning and ground-controlled-intercept (GCI)	
radars as well as the basic command and control	
communications will be improved. Beijing will make	\
limited progress, on its own, in developing and	, ,
deploying air-to-surface missiles (ASMs). Like many	5
Other indigenously developed systems, the Chinese ASM	6
will be elementary technologically, but its impact on	
overall capability, coming as it does to an air force	8
presently lacking any ASMs, is significant.	<u>9</u>
' (a) (6/NOFORT) Fighter aircraft engines will be	10
enhanced, probably with some foreign assistance.	11
However, the 1980s will be spent assimilating the	12
technology required for indigenous engine produc-	13
t'on. Greater, progress will be made in production	" 1:
or surface-to-air missiles based on Western	. 15
.cc.inclogy, but progress will be measured, and the	16
recopological level gained will be second rate.	. 17
Winimal progress will it made in ECM and rCCM	. 8
erstems, but when China's present rudimentary	~ <u>19</u>
capability in electronic warfare is considered the	20
impact of the progress will be significant.	21

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(b) 45/HOTORN) Little change is expected during	<u>1</u>
the 1980s in bomber navigation systems. By and	2
large, systems will be developed indigenously, and	3
based upon knowledge acquired working with	4
commercial aircraft navigation systems. The	<u>5</u>
prospect is alim for developing a close air	* <u>6</u>
support capability given the relatively low	. 2
nriority assigned to deployment of ground-air	8
communications equipment. Continuing, but	9
inspectacular, progress will be made in air force	37
intel'igence collection systems. China will	, 11
purchase a limited amount of SLAR and photo	· <u>12</u>
mulpment, probably from the United States, but	<u>13</u>
*ither the scale of deployment nor the processing	<u>14</u>
mi reporting infrastructure will be adequate for .	15
ffective utilization.	15
c) 13, 1079AN) Because of the slow start toward	17
orernizing the Air Force in the 1980s, progress	18
. the 1990s will be comparatively modest. The	19
arly nineties will see a burgeoning of both RaD	20
nd production facilities. In the late nineries.	21

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this intrastructure will begin to produce, and	1
China will come into its own in the areas in which	. 2
it had an early start in the 1980s, such as AI	`\ <u></u>
radar and fire control, EW and GCI radars, command	- S 4_
and control, and ASMs. However, overall air force	<u>5</u>
capability will still lag far behind the USSR and	<u>6</u>
US. It will not be until the 21st century that	
China will be able to halt the widening gap	8
(2) (S,/Népoter) Effect on the Sing-Soviet and Sing-US	. 9
Balance Under Emisting Transfer Policy. The Chinese	10
Air Force will improve basic capabilities particularly	, 1 <u>1</u>
in AI radars, fire control systems, and AAMs. It will.	12
greatly increase the present 100-to-200 hour time.	<u>્રા</u> ૩
between major engine overhauls. These fundamental	` <u>14</u>
improvements, accomplished primarily through	. <u>15</u>
application of Western technology, will upgrade	16
overall a'r force eftectiveness. For the wost part	<u>17</u>
hovever, continuing Soviet developments can be	18
expected to offset Chinese gains and there will be no	<u>19</u>
significant relative change in China's present vulner-	<u>20</u>
ability to Soviet air attack. Of greater long-term	< <u>21</u>

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importance will be China's enhanced potential for	<u> </u>
development in the 1990s of a more sophisticated	2
millitary aricraft industry, able to produce more	2
advanced fighter aircraft with capabilities which	4
narrow the gap between Chinese and Soviet air forces.	, <u>5</u>
(3) (5/NOTOKN) The limited gains expected under	· <u>6</u>
existing conditions of development would have-no	. 2
Girec* effect on US security. Enhanced fighter	<u>8</u>
forces, deployment of even a very basic ASM capability	9
and upgrades of China's land based air defense C3,	<u>10</u>
lowever, increases the threat on China's periphery.	1.
Aside from the impact on a Korean Peninsula conflict.	_ <u>12</u>
and the antishipping threat to US and allied navies	~. <u>13</u>
pused by Chinese ASMs, the threat to Taiwan is	<u>1</u> ′_
probably of most concern. Taiwan depends on the	<u>15</u>
Lechnical superiority of its relatively small fighter	16
force to dete, the large numbers of obsolete aircraft	<u>17</u>
Chiua could bring to bear Wich an enhanced Chinese	<u>18</u>
fighter capability the value of the Taiwan air	19
deterrent will decrease	<u>20</u>

Enclosure A

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SECRET NOT ROLEASABLE TO POREION HATIONALS

(4) (6/Alerony) Air Force Developments Under Liberal-	
ized Policy. Under conditions of substantially	\.2
liberalized access to technology, China can be	3.
expected to press for the following	<u>4</u>
technologies/equipment:	5
- [a] Airborne ECM/ECCM.	•6_
(b) Missile jamming equipment.	7
(a) Air seach and air-intercept radars.	<u>8</u>
(d) kirborne pulse doppler .adar.	9.
, e. Infrared air to air missiles.	,/ , f ₀
'f) Advanced jet engines, and associated	<u>11</u>
metallurgy, protective coatings, and manufacturing	12
techniques.	<u>13</u>
(o; avionics.	<u>1</u> '
(t) righter inertial navigation systems.	15
(i, Radar warning receivers	. 43
(j) Air surveillance radars.	
(k' advanced fighter Literafy	10
(1) intirader reflective technology.	<u>. 19</u>
With a major influx of foreign technology, China could	<u>20</u>
produce an engine comparable to the GE-P100 by the	<u>21</u>
1.000	2.7

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Furthermore, Chinese engineers educated in the US and	
Europe will be familiar with even more advanced	
propulsion systems and concepts. China's capability	
to produce radars, fire-control systems, AAMs, and	
ECM/ECCM could approach near state-of-the-art,	
trailing counterpart US technology by perhaps as '	
little as five years vice the present twenty-plus	
years. The majority of aircraft in the inventory $w(1)$	
remain dated, but the capability to produce more	
modern airframes could exist by the mid-1990s if	<u>,</u> 7(
Chinese priorities were allocated to inventory	· <u>1</u>
expansion. Bomb navigation systems, ASMs, PGMs, and	Ľ
close-air-support techniques will be advanced to give	1
china a meaningful ground attack capability. China's	. <u>1</u> 4
capability in air force intelligence collection will	19
he only marginal unless resource allocations are	1.
incleased.	·
15. (C, WOFORM) Effect on Sino-Soviet datance and US	11
Interests Under Liberalized Transfer Policy. These	15
new developments will not be numerically sufficient to	` <u>20</u>
A North Northwester contents a description Contest attracts	2

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Enclosure A.

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but they will force the Soviet Union to pay neavity in	
aircraft. This defensive counterair capability,	2
unlike the present situation, will provide sufficient	3
cover for Chinese ground and armor forces, further	4
increasing Soviet costs and planning difficulties.	- ,** - 5
The deterrent effect of this growing capability will	5
expand with the inventory even though Moscow wilt	
ontinue to hold the ultimate ability to gain air	ider £
superiority over contested areas.	
/6; (3/NOFORM) Enhancements in Ultimese air capabili-	10
lies would also present increased threats to US forces	11
and allies in Asia. Development of long-range	12
penetratio. percent in particular would alarm ms	13
allies and might require US upgrading of allied	15
capabilities and US theater forces. The air imbalance	1.5
in the Talwan Strait is likely to tilt even word	. 1
cowards China's favor.	12
(S) Naval Forces. China's davy is basically a coastal	1.5
stense force composed of small fast combatants meny of	19
nich are equipped with early model Soviet cruise	<u>20</u>
issiles This force could inflict neavy losses on enemy	., 2]

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ships operating near coastal areas. China also has a large fleet (110 units) of medium range diesel submarines which pose a formidable threat in China's adjacent seas, key Asian choke points, and along Western Pacific SLOCs. The Chinese inventory of principal combatants—destroyers and frigates—is capable of sustained, long range operations but cannot effectively challenge modern navies on the high seas or in distant confrontation zones because of major weaknesses in seasors and weaponry. The LACk of the phorne surface to—air missiles, ASE torpedoes, modern—lectronics and poor tactical C² and battle management systems render major combatants ineffective in comparison to US or Soviet forces—China's amphibious force can lift 3-4 light divisions to short range objectives.

Transfir Policy. Under existing transfer policy. Under existing the Navy will make only modest improvements in overall capability. Gracual improvements in electronica, eapons, and propulsion together with improved straining techniques will contribute to the extension of navy missions beyond that of coastal defense. Air

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Enclosure A

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defense, ASW, and C ³ will likely receive most acten-	
tion in the surface fleet. The submarine force will	
likely benefit from improved propulsion, quieting .	
techniques, and torpedoes. The few nuclear-powered	·
attack submarines (SSRs) in the inventory will likely	
have only limited utility during the period due to	•
rudimentary desin and subsystem technology. No.	
significant advances in naval aviation are	
*nticipated	9
(2) Effect on the Sino-Soviet and Sino-US Belance	<u>10</u>
Under Present Transfer Policy. Anticipated Chinese.	,11
namal developments are unlikely to cause any	. 12
significant change in the wide disparity between	13
Chinese and Soviet Pacific Fleet or US naval	1_
capabilities. in any Sino-Soviet conflict, the	15
C.inese Navy would probably attempt to deny soviet	- 16 -
naval units unencumbered movement in seas bordering 1	<u>±7</u>
China, using submarine deployments, wining, and	1 <u>8</u>
ha assment tactics. But hese activities would	<u>19</u>
probably do little more than complicate Soviet	<u>20</u>
planning and operations. Similarly, Chinese naval	. <u>21</u>
forces could complicate US naval operations in border	22
seas.	<u>23</u>

- SHCKET I-36 NOT PREPASABLE TO PORBIGH HATTONIAS



	(3) 18) Naval Force Developments Under Liberalized	
	Transfer Policy. Improvements in Chinese naval	
	capabilities are unlikely to have any significant	yaan) Ali
	impact on US forces in the region during the remainder	f. S
	of this century.	
	(4) \iint Under conditions of substantially liberalized	akt riy E. la dij
	access to technology, technology and equipment will be	
	sought in these areas	. !
74,	(a' Shipborne SAMs.	•
	(P) Sonars.	1
	c) ASV torpedoes.	-
	(d) Combat/ractical data management systems.	1
	(e) Early arning radar	. 1
	(E) POLYECCM.	1
	(g) Gas turbine propulsion systems.	1
	(h' Antichipping missiles.	19
	(i, Pire control systems.	1
	(_' Communications systems.	1.1
	(5) (S/NGPORM) With sign'ficantly increased Western	• ±
	technology available the Chinese Navy will develop an	2
	improved coastal defense capability and will move	2.
10 PM	그는 그렇게 되는 그는 그 사람들이 그 얼마를 가면 하는 그들은 그들은 그를 가는 그를 가장하는 것이 되었다. 그는 그를 가장하는 그를 가장하는 그를 가장하는 그를 가장하는 그를 가장하는 것이 되었다.	925



toward an increased, but still limited, aullity to project its influence beyond the China Seas. Due to the role, size, and composition of the fleet, substantially increased capabilities will take considerable time. Significant improvements will likely be manifested in a new generation of surface combatants and submarines which will begin to enter the fleet during the 1990s. These new ships and submarines will represent a vasi qualitative improvement over the rest 10 of the fleet. However, they will remain inferior to 11 comparable units in the US and Soviet navies. 12 Further, production runs extending into the 21st 13 century will be required before the capabilities of the coastal defense force and blue rater surface and 35 submarine forces could be atrained . Substantial ٠6 advances will likely be made over he current. rudimentary 'ASW capability, but neither US nor Soviet 18 submarine operations will be seriously chreatened 19 (6) F Effect on Sino-Soviet Balance and US Interests 20 of Liberalized Transfer Policy. With significantly increased access to Western technology, China's

SPECIT 1-38 NOT RELEACABLE TO PORTION NATIONALS

SECRET

	coastal defense capabilities are likely to improve	
	during the 1990s making a Soviet assault from seaward	2
	increasingly difficult. Chinese ability to inhibit or	2
	significantly interfere with Soviet naval operations	4
	in the Pacific theater will remain marginal.	5
	(7) (7) While improvements in Chinese naval capabil-	<u>6</u>
	itles will have little or no impact on US forces in	<u> </u>
. Jac Brij	he region, they could threaten cricical sea lines of	8
an ^{n i} i Luis	. communication of key US allies or friends, thereby	2
	complicating US planning considerations	<u>10</u>
5	(U) C <u>onclusions</u>	् • <u>1</u> 1
	a. To Beijing will continue to value its relationship	12
	with the US for the leverage it provides against Moscow	13
tari Series	and for the contribution it makes to China's development.	7;
	Despite this perception, Chinase leaders will remain	<u>15</u>
	committed to possuing an "independent" foreign policy in	16
	which compromise on basic Chinese interests (e.g.,	1.11
Í	rovereignty over gaiwan) in exchange for other desired	· T8
	objectives such as advanced .achenlon" or a security	19
	commitment will be strongly resucted	20

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ンとは重要なできれる。 「大学を対している。」というには、「大学を対している。」というできません。 「大学を対している。」というには、「大学を対している。」というには、「大学を対している。」というには、「大学を対している」というには、「大学を対している」というには、「大学を持ちません」というには、「大学を持ちません」

(b) K) While militury modernization will remain a key	1
objective, it will have to be accomplished with limited	. 2
resources. Capital invested in improving China's cur.ent	· ` <u>3</u>
military capability is capital that cannot be used to.	. 1
develop the overall level of industrial technology. A	<u>5</u>
recent statement by Yang Shangkun, executive vice-	6
chairman of the CCPCC military Commission is illus-	2
trative. * the main task at present is to speed up.	*
the development of moderr weapons for the Army (we	. 9
u.ge) all involved in weapons development to concentrate,	. 10
th ir effort—on the rapid production of high	11
quality modern weapons for the armed forces by mainly	12
elying on their own efforts and on less funding	<u>્13</u>
(c) (c) Given a projected long-term limitation on	. <u>1</u> *
resources available, Chinese defense planners will be	19
orced to make trade-off decisions concerning weapons	15
Jeveloped or acquired. Even under the best of circum-	:1
scances, China will be unrole to furfill all of its	18
oriority defense needs in the next 20 years. If the	. 19
Chinese were to concentrate all available resources on	· <u>20</u>
their top several defense objectives, substantial strides	21

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Enclosure A

76 -

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probably could be achieved while remaining mission areas would be significantly degraded. However, Beljing is expected to continue to seek to develop a broad-based, more balanced approach to force development. This will result in generally lower capability levels than would be the case if a more selective process were adopted, (d) (d) Nevertheless, upgrades in Chinese capabilities improve not only their ability to confront Soviet forces, but also those of the United States Thus, to the extent 10 that HS technological assistance might give. China a 11 marginal gain in the Sino Soviet military balance, it 12 also involves a certain degree of risk for US forces. .3 (e) (Based on the foregoing analysis and forecasts. 12 the Chinese will be able to achieve threat levels that 15 are directly challenging to the United States in only a 3.3 fin areas. The most significant is that of sicategic . 7 missiles and nuclear weapons, with lesser risks involved 18 The Chinese will th upgraces or ground and al. forces 19 oursue development of these capabilities despice 20 continued paralleling of some interests with the West, 21 and regardless of the level of Western technology made available.

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	(f) ter The significance of the threat which these
	developments potentially pose for the US is offset and
	ameliorated by the concurrent threats they pose to the
	Soviet Union, which is judged to have already calculated
	into their defense planning substantial Western
	assistance to China's force development.
	(g) (S/Norosa) In the near term, the threat to the United
	States is further offset to the extent the US can control
	the type and rate of lechnology transferred and monitor
	improvements. This is particularly feasible given the
	preliminary stage of most Chinese development projects.
	(F) (S/NORORH) At some point, however, the effects will
	become increasingly difficult to control because
	cechnology evolution is a progenitive process: ine
	more technologies China assimilates, the greater will
	lacrme "its capacity for termology generations
	Therefore, in military areas of potential criticality,
•	he transfer of selected military end items or
	components, and the continued case-by-case review of key
ger# • • •••	advanced dual-use technologies is required to maintain
	noseible risks to US interests at a manageable level.

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(i) Based on Chinese StT priorities and requirements,	<u>.</u>
and on what we know about the scope, pace and direction	2
of their R&D effort, it is unlikely that China will have	3
the capability to seriously threaten US interests before	4
the turn of the century. While Chinese advances before	<u>5</u>
the turn of the century will not pose a serious threat to	<u>6</u>
US forces, enhancements could impact susbstantially on US	2
Filies and interestsmos. notably South Korea and	<u>8</u>
Talwan. Because of the political sensitivities attendant	9
with US-China-Taiwan relations, upgrading of Taiwan	777
defenses to keep pace with developments on the mainland	<u>11</u>
will pose difficult problems. Most critical will be	12
maintaining Taiwan's technical superiority in alr	73
Jefense, primarily fighter aircraft.	1'
(i) of The most important effects of significant lib-	. <u>15</u>
e alizacion in technology transfer po'rcy o China "111	<u>l</u> ú
not be manifest until the turn of the century. At the	17
Lid 1990s point and beyone, the synergistic effect of	<u>16</u>
ultiple technologies and meapons systems, acquired	12
legally or illegally, coupled with faster than expected	20
PRC technological progress, could mose serious threats to	<u>21</u>
the United States, its allies, and its interests in the	22
	23
21st century.	*

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ASSOCIATED WITH THE TRANSFER OF CONVENTIONAL WEAPON SYSTEMS AND DUAL-USE TECHNOLOGY (C)	2
]
1. [5] In Section I of this assessment, "threat" and "risk"	4
were defined. The purpose was to provide clear distinctions.	5
between two often confused concepts. The definitions are	6
reiterated here:	
If Risk possibility of loss of injury peril.	8
as applied to the transfer of conventional weapons and	9
oual-use technology, any transfer that increases the	. <u>10</u>
rillitary capability of the PRC entails some rish to Us	11
interests. Risk remains at an acceptable level, or	12
manageable level, if the ability of the United States to	13
delend its interests is not called into questio	1-
b. (f) Threat1: an indication of something impending,	15
>: `n ~xpression of intention to inflict ev() injury,	16
or damage." ** A threat ensues when the PRc develops a	1/
pab'lity to jeopard'ze eithe. US itorests or the	18
abil'ty of the United States to defend its interests.	<u>15</u>

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^{*} Webster's New Collegiate Dictionary, 1975, page 1000 ** Ibid, mage 1215

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2. (6) The PRC can pose threats to US interests but not	1
risks. Transfers of technology by the United States may	2
contain risks that China will use that technology in a	. 3
threatening way. As discussed earlier, those PRC threats	4
are offset by numerous other factors.	5
3. (c) The terms *credible threat, * *credible risk, * and	6
"major risk" to US national security have been used	
interchangeably when discussing the risks to US incerests.	8
posed by transfers of dual-use technology to china,	9
resulting in some confusion. With the distinction provided	10
by the above definitions, such confusion can be eliminated.	11
It is important to note that any threat is, ipso facto,	12
'c.edible. Lacking credibility, it would not be a threat.	13
1 In May 1983, the Joint Chiefs of Staff concluded that	14
*wajor national security risk in the transfer of technology	15
occurs when the transfer of single and combined technologies	16
world allow the ennancement of PMC military capabilities to	17
a decree that would degrade the sechnological advantages US	Ť8
and allied forces require to maintain a margin of military	19
superiority or threaten vital US national security	20
interests. That definition is still valid. It takes into	21
account the continuing development or military capabilities	22
	23

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implies that transfers of technologies that would not allow enhancement of Chinese capabilities to a threatening level do not increase Chinese threats to US incerests, although these transfers may pose the risk that the Chinese will use the technology to improve their military capability. 5. The previous JCS definition, while still valid, is not intended to stand alone as the single determining factor in reviewing cases. Rather, it implies a process to 9 determine whether or not a proposed transfer sorves US 1.0 interests. <u>.1</u> :. (U) Conclusions and Recommendations 12 a. (S) The above definitions of risk and threat as 13 applied to the transfer of conventional meapon systems and dual-use technology should be adopted. They should 15 be used when considering the positive and negative 16 espects of the transfer of rechnology and weapon systems. 17 b. The terms "credible threat," "credible risk," and :8 "major risk" should be avoided. Scrict adherence to the 19 refinitions of rish and threat contained in this study <u> 20</u> will facilitate proper focus and prevent confusion. 21 c. (5) The May 1983 JCS definition of major national 22 security risk in the transfer of technology is still 23 valid and should be included as a consideration during 24

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the case review process.

SECRET NOT RELEASABLE TO FOREIGN RATIONALS

SECTION III—REASSESSMENT OF THE SPECIAL MISSION AREAS (C)

1.45) The Special Mission Areas were first defined on

4 June 1981 in a Presidential pirective on Export Control

Policy to China. That directive authorized the transfer of
technology at significantly higher levels, while maintaining
case-by-case review to minimize national security risks in
the Special Mission Areas of nuclear weapons and their
delivery systems, electronic and anti-submarine warfare, and
intelliquice gathering.

directive, it is clear that the resident intended to substantially raise the levels of technology to be made available. The Special Mission Areas were originally conceived as a guideline for identifying those technologies whose transfers would lead to Chinese military developments that would threaten US interests. In this regard, the Special Mission Areas are both too broad and too narrow. They are too broad in that they have been interpreted to include a very wide range of basic technologies that, if

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strictly applied, could be used to develop some undefined degree of military capability in the Special Misslon Areas. They are too narrow in that they do not address other technologies the PRC could use to develop capabilities that. 5 would threaten US interests. 3. Is The Special Mission Areas should have their focus broadened to encompass the other areas critical to proteuting US intorests power projection, and air superiority. Thase should be added to the four previously defined areas. 4. MA new term is required to encompass all six and, to <u>. 1</u> prevent confusion, should be called "Critical Hilltary 12 Capabilities. * A Chinese capability in these Critical 13 Military Capabilities that would threaten US interests is 14 ic be avoided. In order to determine how transfers of _ 5 technology and weapon systems may affect these, it is 15 necessary to issess and profess Chinese copabilities in 17 10 *. (C/COPERM) Long-Range Nuclear Weapons and Delivery 14 Systems. China's current strategic threat to the US 20 landmass rests solely in its two CSS-4 ICBM launchers. 21 The CSS-4 is an 8,800-nm missile with one warhead of

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about 4 to 5 megatons. This strategic missile force will	.
단하하다 (1985년 - 1925년 - 1985년 - 1984년) 12 - 전하루 전기를 보고 있는 고속을 만드로 하게 함께 기를 보고 있다고요? (1925년 - 1925년 - 1925년 - 193	2
increase to about six launchers in the next 5 years and	·' <u>3</u>
will retain its character as a countervalue deterrent	1, 1, 1
rather than a counterforce system. Technological	. 4
evolution will probably yield greater accuracy and	<u>5</u>
reliability, but China will probably not have MRV and	5
MIRV capabilities before the early 1990s Generic as	
well as specific technology transfer mill affect the	<u>. e</u>
quality and proliferation of Chinese systems. However,	<u>9</u>
even under the best of requisition circumstances the	10
Chinese strategic force will no. approach the	77
quantitative or qualitative levels of the US force _and .	. <u>12</u>
China will continue a limited-deterrent nuclear strategy.	13
China will almost certainly adhere to a no-first-use.	~ · 14
	<u>15</u>
policy.	16
b (/worder) Electronic Warfar. Without dire t *nd	17
extensive assistance from the West, China is unlikely to	
p se a majo. EW threat to US or allied systems in .his	- <u>18</u>
canture	· . <u>19</u>

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	c. (3/NOTONN) ASW. At present, the Chinese Navy 1s not	
	capable of protecting vital SLOCs against any adversary	2
	with quiet submapines. China's current ASW capabilities	* 3
	against US submarines are very limited and will remain so	1
	for the foreseeable feture. Only through large-scale	. 5
	acquisitions of current state-of-the-art Western systems	<u>6</u>
	could the Chinese Navy approach the ranks of a norld	× . <u>1</u>
	class naval force by the turn of the century and threaten	<u>8</u>
	US cubmarines.	9
•	a -cynorumy Intelligence Collection. China is working	10
	"o improve its technical intelligence collection and	11
	processing capabilities. Advances in these areas,	12
	particularly in SIGINT co'lection and exploitation, are	13
	expected with the application of dual-use technology	15
	already available. 'Overhead imaging systems are being	<u> 35</u>
	tefter. Within the decade China will probably have the	16
	capab lity for periodic overhead monitoring with	. 11
	resolutions of 1-3 meters in a recoverable fixe capsule	13
	-ystem. Overhead SIGINT A draced 1-tection systems	73
	are probably under development, but	<u> </u>
	capability without significant infusion	**
	그는 그렇다 하다는 그 생물이 그 사용하다요. 그는 그는 그는 그를 바탕빼고수 하는 그 사는 전 스스스 등을 모임했다는 학생 사는 그는 그는 그를 다 했다.	· · · · · · ·

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technology is probably a decade away. Relevant techno-	48 <u>1</u>
logical know-how and systems integration in the areas of	. 2
analysis and cryptologic technologies are not likely to	:
ever be available through commercial means.	4
≥. (S/NOroka) Power Projection. China's capability to	
project military power by air and seaborne forces is cur-	
rently limited and poses little threat to the interests	- 1
and security of the United States and its allies and	2
friends. For China to attempt to improve those capabili-	9
ties to a threatening degree would indicate a change in	10
Thinese policy and strategy, thus jeopardizing bilateral	11
relations and seriously increasing the potential for hos-	12
tilities. In order for the Chinese military to develop a	13
credible capability for power projection in the region,	14
it would be necessary to develop major technological and	<u>15</u>
doctinal advances in virtually a'l conventional mission	16
areas necessary for modern-day, multi-threat environments.	<u> </u>
These include ASW, ai. defense, EW, taclica! command and	18
control, logistics, transport, ground force mobility, and	19
all-weather capabilities. Many of these limitations can	20
be overcome within the next two decades, but massive for-	21
eign military equipment, technology, and training infusions	22
.would be required. China will not have either the economic	23

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wherewithal or inclination to adopt such an approach Jur-	* <u>1</u>
ing this century.	2
f. (Sympermy Air Superiority. The technological lead	3
enjowed by US and allied air forces is essential to ful-	4
filling QS regional objectives. For China to deploy sys-	<u>5</u>
tems that would either defeat US and allied systems or	. <u>6</u>
prevent US and allied air forces from establishing and	2
maintaining air superiority would pose a grave threat.	<u>8</u> .
Only if it acquired the most advanced Us/Wesrer tech-	9
unlogy of weapon systems in the near term and was pro-	<u>10</u>
rided appropriate folion-on upgrades could the PRC.	· <u>11</u>
, achieve this degree of capability, Short of this,	<u>12</u>
Chinese al. defense capabilities will show significant.	<u>13</u>
improvement becarse of the high priority the, are accorded.	14
Give. a restriction of the most advanced US Western tech-	15
rolccy, however china would be able to inhibit but not	1 <u>6</u>
ultimately defeat combined and allied air forces.	<u>17</u>
5 (5) The redeficition of Special Mission areas, which pro-	18
duced the recommended Critical Military Capabilities, does	<u>19</u> '
not address their primary problemthat they encompass too	20
wide a range of technologies to be analytically useful To	21
narrow their focus and lay the foundations for the ana-	22
lytical framework requested in the second task, it is	23 🔍
	24
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necessary to subdefine them. This involves identifying the types of technologies whose transfer could modify the above judgments. These fall into three broad categories: The first consists of those rapidly developing technologies where the United States must reserve to itself the cutting . edge of production capability, but not object to transfers of less advanced technology. The second is sensitive state of-the-arr, military-related technologies and veapon systems. The .hird consists of mature, sensitive counnologies. 0 1. ে, বিস Basic Production Technology, US leads in both weapon systems deployment and basic production technolo-12 gies virtually guarantee the superiority of deployed US 13 systems through the turn of the century. The US lead could be degraded if the PRC ere granted access to the 15 most advanced forms of basic production technology 16 .roposed transfers of est covanced production technol-17 ogies should be reviewed to insure that they serve US <u>,</u> 8 interests. 19 h. 757 Military-Related Technologies and Weapon Systems. 20 There are certain state-of-the-art military or military-21 related technologies and weapon systems that, if 22 transferred to China, could degrade the required US

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Enclosure A

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margin of advantage. These include already developed

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사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은		
systems and technologies in the fields of EW, ASW, C3,	1	
and precision-guided munitions. The United States must	. 2	4
. maintain a generational lead in these technologies and	3	×.
weapon system. Other, less capable technologies and	4	* ***
systems require case-by-case review to determine their	5	
impact on Chinese capabilities and US interests.	<u> </u>	
C Mature, Sensitive Technologies. Mature, sensitive	2	
	8	e e e e e e e e e e e e e e e e e e e
through its own research and development efforts would	9	
.hreaten US interests. These include most militarily	10	
unetul nuclea" technology, fiber optics, solid and	11	
stable-liquid missile propellants, Stealth, submarine	12	
silencing, high-energy lasers, composite armor, etc. The	13	
ilited States and its COCOM partners, the only like'y	14	
sources of these types of technology for China, must	<u>15</u>	
rintrin stringent controls on these technologics. There	1 <u>6</u>	
.re .o occasions presently e.vistuned where transfers of	11	3
hes tochnologies would serve US interests.	18	
6. (*) In order to reduce the likelihood of China improving	1 <u>19</u>	: :G.
its military capabilithes to a level that would threaten US	20	
incerests, i.e., the Critical Military Capabilities, it is	<u>21</u>	
necessary to prevent the transfer of:	<u>22</u> .	N.
a. Basic production technologies at their most advanced	<u>23</u>	<u>C</u>
stages.	<u>24</u>	
강사 내가 하는 이 얼마, 아마는 이러면 보다는 사람들이 내려가 되었다면 하지만 하지만 하는 것이다. 아무를 다른	and always	٠.٠ :

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b. State-of-the-art, military-related technologies and	1
weapon systems.	
. c. Sensitive, military-related technologies that the	٤
United States shares only with its closest allies or	. 4
maintains £igorous unilateral control.	
7. 16) Transfers of other, less capable technologies and	<u>6</u>
Weapon systems will eventually raise the level of Chinese	٦, ١
m'litary capabilities, but are not likely to significantly	8_
fromease the Chreats these may post to Us interests. A	<u>9</u>
mase-by-case review of all weapon systems and military-	<u> 14</u>
relat d technologies is required.	<u>.</u> 1
8 1 Two other phrases in the Presidential Directive of	12
4 June 1981 have proven difficul, to interpret:	13
minimize national security risk	,1_
* rechnical level approximately twice that provided	15
n the Sortet Union	. 1.
.a In the phrase "winimize national securicy risk" has .	31
. c. cen been interpleted to men any possible risk to	1,8
tated US national security interests. This has led to a	<u>19</u>
generally restrictive approach regarding technology	. <u>20</u>
iransfer to China. Lacking an overall strategic	21
assessment such as that in Section I of this study, it	22
was not at all clear that Chinese mixtary improvements	23
would be modest, threatening US interests in only a few	<u>24</u> ,
어지가는 마양하는 이렇게 마을로나는 뭐하는 바람들은 생생이 하면 없이 없었다. 생각도 되었다. 보다를 보다 하다.	

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Enclosure.A

areas (notably nuclear), and that the PRC would continue to develop those threatening capabilities to some degree, with or without access to US or other Western technology. In light of this analysis, a substitute phrase is recommended: "maintaining national security risk at a manageable level." This substitution takes into account Chinese development, with or without access to Western/US rual-use technology of certal. Military capabilities that may threaten US interests it implies that the .()) Uniled States should seek to manage the risk by 1_ preventing transfer of those technologies and systems 1.2 that could subsequently be used to develop a capability 13 that would jeopardize US interests, the technologically . 14 superior US military forces, or the ability of the United . 5 States to defend its interests. ... for the two Times kule, " ... it is roumonly referred <u> 11</u> to, represented a significant step in 1981, insofar as ic . <u>. . .</u> 31. tinguished thina from the soviet Union and its Warsaw 13 Pict rilies. Since that time, however, 05 policy toward 20 the PRC has continued to evolve. The recent announcement . 3 T by the Secretary of Commerce that the United States would 22 liberalize and streamline its controls, and shift 23 China to Category V while maintaining national security 24 review was a major step in the evolution of US policy.

(1) One result of Secretary's announcement was	1
that it raised Chinese expectations. PRC leaders	2
anticipate substantially higher levels of technology	
than previously, when the "two times" rule pertained.	4
The judgments contained in the previous sections of	5
this assessment support substantially increasing the	. 6
level of technology to be made available to the PRC	1
ell beyond its "two times" level.	<u>8</u>
(2) (8) It is ecommended that the phrase 'a	1
rechnical level approximately twice that provided to	10
he Soviet Union be dropped. It is currently	: < <u>11</u>
inappropriate and may prove to be counterproductive.	12
9. (J) Conclusions and Recommendations	13
's. 19 In order to reduce the likelihood of China's	-14
improving its military capabilities to a level that would	15
ireaten US interertsth- Critical Military Capabilities	. <u>16</u>
and other areas of military capability in which the	±.
United States west maintain technological superiority	13
I necessary to prevent the transfer of.	- <u>19</u>
(1) Basic production technologies at their most	· 20
	21

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	S																		
	po																		

- (3) Mature, sensitive technologies that the United States shares only with its closest allies or over which it maintains rigorous unilateral control.
- b. (6) Transfers of other, less capable technologies and conventional weapon systems will eventually raise the livel of Chinese military capabilities but not significantly increase the threat these may pose to US interests.
- c. In the phrase "minim.ze risk to national security" should be replaced with the phrase "maintaining national security risk at a manageable level" for the ourposes of onsidering transfer of conventional weapons and dual-use sechnology to China.
- The phrise ... technical level approximatily colde that provided to the Soviet Union. . . * should be dropped.

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ENCLOSURE A

SECTION IV--ANALYTICAL FRAMEWORK FOR EVALUATING THE NET STRATEGIC IMPACT OF CONVENTIONAL ARMS AND TECHNOLOGY TRANSFER. (U)

T. (U) Introduction and Summary

the net strategic impact of conventional arms and technology transfers contains two elements. The first is in analysis of the effect specific technologies have on eveloping military capabilities that could influence the strategic balance. The second consists of an assessment of the dynamic political, economic, military, and psychological factors that contribute to the regional and clobal strategic balance. To insure that US transfers of econology and conventional weapons systems to China continue to serve US interests, it is necessary to continue to serve US interests, it is necessary to capabilities.

this section assumes the net strategic impact of transfers of technology and conventional weapons systems

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on US interests. It does so by identifying US objectives and establishing criteria to judge whether or not the transfer of a technology or weapon system supports those objectives.

2. Of Discussion

- a. (S) US strategic objectives for East Asia and the Pacific emphasize protecting vital US interests and preventing the Soviet Union No.th Korea, and Vietnam from expanding their influence in the region. In addition, the United States seeks to maintain the influence and vitality or regional friends and allies. Us policy toward China affects US relations with regional states. To maintain effective deterrence and warfighting capability, US military strategy for East Asia contingencies tests on the twin pillars of coalition beforee and repid deployment/reinforcement of US forces.

 b. 467 The defense of US interests in East Asia requires:
 - (1) Insuring the vitality and confidence of regional
 - .ilies and friends.

 (2) Maintaining lines of communication ba effectively

 deploy and reinforce US and allied forces.

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(3) Defending US bases and facilities.	1:
(4) Establishing and maintaining control of the air	2
and sea.	
(5) Conducting combined operations in defense of US	1
and allied territories and vital interests.	5
. (6) Isolating the battlefield and destroying enemy	<u>6</u>
forces.	~ 1
18 The United States employs numerically inferior	8_
forces in Asia that rely on technological superiority to	9
maintain combat effectiveness. Allied countries, notably	<u>10</u>
Tapan and South Korra, continue to improve the techno-	11
logical capabilities of their forces, though these lag	~ <u>12</u>
behind the United States. In smite of these allied	.,13
alvances, technologically superior US forces must be	, <u>1 ′.</u>
employed for combined operations to effectively counter	15
ony agyressor in cast Asia.	
d to The Soviet Union is considered the major threat to	. 17
ivocall regional security while No. th Rocea and Vietnam	<u>1 ម</u>
Lose more localized threats. Due to its expanding ties	19_
with the West, China is judged to pose far less threat to	20
US interests in the region. A conflict on the Korean	21_

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Peninsula is one scenario where conflicking US and

Chinese Interests might lead to military activity. Even so, it is judged that China would likely provide only political and logistic support in such a scenario, unless North Korea were on the verge of defeat or China's territory threatened. Of lesser probability would be conflict associated with the defense of Taiwan against DRC hostile actions, in which US air and havar forces may narticipale. 14 a. 45/Noromy A key US strategic interest in Asia is co deny the USSR the capability to achieve a position of 12 political and military dominance in the region. China, 13 by virtue of its size, geostrategic position, distrust of the soviets, and by its large aimed forces, plays an 15 important role as a Sounterweight to Soviet power in 33 Asi... It is in this sense that the revelopment and 17 maintenance of a Chinese armed force capable of providing 1 8 a counterbalance to soviet forces in Asia is in the US JA ...cerest. Conversely, improved Chinese military 20 capabilities can pose a potential threat to certain other 21 US interests, objectives, and missions in Asia.

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3. (s) Framework for Analysis. In constructing an analyt-	
ical framework for evaluating the net strategic impact of	2
conventional arms and technology transfers, it is necessary	3_
to integrate the findings of previous sections of this	<u>.</u>
study. The analytical framework proposed is a two-stage	
evaluation process ("Red and Green lines" are being	6,
established in an interagency forum separate from this	2
effort). This analytical framework will as a matter of	<u>8</u>
course require periodic readjustment to insure compatability,	9
이 그 그게 되고 있는 이 집안이 그 그릇이 가는 그릇이 바라가 되지 않겠다면 하는 것이 이 경찰, 그 사이에 아내는 이 그림 말씀하는 것, 사이와	. 70
with changing events.	11
. (S) The first stage is to determine whether the	12
license request involves the transfer of a technology in	13
one of the three Sensitive Technological Areas defined in	14
Section III:	
(1) Basic Production Technology.	15
(2) Military Related Technologies and Weapons Systems.	<u>16</u>
(3) Natura Sansitive Technologies.	17
If a cechnology falls in the third Sensitive Techno-	18
	. <u> </u>
logical Area, it should be immediately rejected. License	20
requests in the first two Sensitive Technological Areas	2)
should be subjected to a third stage of analysis.	a contract
b. 487 The second stage draws heavily on the strategic	2.7
assessment recented in the first section, as well as the	2
그는 경기에 있는 경기에 가장 보고 있다. 그는 경기에 가장 되었다면 되었다. 그는 경기에 가장 이렇게 되었다. 그는 것이 되었다. 그는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 되었다. 그는 것이 없는 것이었다. 그런 것이 없는 것이 없는 것이었다면 없는 것이 없는 것이 없는 것이었다면 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이었다면 없는 것이 없는 것이었다면 없는 것이었다면 없는 것이 없는 것이었다면 없는 것이었다면 없는 것이 없는 것이었다면 없어요. 그렇지 않는 것이었다면 없는 것이었다면 없는 것이었다면 없는 것이었다면 없는 것이었다면 없는 것이었다면 없는 것이었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없	

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Critical Military Capubilities (Redefined Special Mission	, 1
Areas) proposed in the third saction. To insure that US	2
transfers of technology and conventional weapons systems	
serve US interests, it is necessary to continually	
monitor and project Chinese intentions and capabilities.	
The following criteria should be used in judging whether	" <u>(</u>
or not the transfer of a technology or conventional	
weapons system supports US strategic objectives:	<u>Σ</u>
(i) Does this transfer have a positive influence on	`~~ <u>\$</u>
the global strategic balance?	10
(2) How does it affect current and forecasted Chinese	11
relations with the United States?	12
(3) Does it contribute to military capabilities that	13
China is developing that could threaten US interests?	. 15
(a) Will the new capabilities pose a threat to US	<u>1</u> 5
interests?	16
(b) Will the military capability permitted by this.	<u>±2</u>
transfer permit the Chinese to defeat US systems	. †8
in use at the time of IOC of the Chinase system?	19
(c) Is this transfer needed to develop the	20
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Enclosure A.

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(4) Would this transfer constitute precedent for further sales to China and other countries that would 3 not be in US interests? (5) What capability does China have to integrate the technology into advanced weapons systems? -(6) What steps can the US take to control or inhibit Chinese acquisition of required technologies? 8 (7) Will the cause and effect dynamics of improved military capabilities and intered intentions pose 10 threats to US interests? c. Let If the license request patisfies the conditions of 12 the foregoing criteria checklist, approval should be

granted.

IV-7

Enclosure A

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DRALT	.
MEMORANDUM FOR THE ASSISTANT TO THE PRESIDENT FOR NATIONAL SECURITY AFFAIRS	<u>.</u>
Subject: Assessment of the Benefits and Risks in the Transfer of Advanced Technology and Conventional Arms to China (U)	4
1. 48 Ac an interagency group meeting chaired by the	₫.
Director of Political-Militat: Atfairs, NSC, the Department	. 1
of Defense was requested to acd ess four issues in	<u>2</u>
connection with the recent decision to liberalize the	<u>9</u>
transfer of technology to China These are:	10
a. Assess the impact of technology transfer and	1 <u>1</u>
conventional arms sales on the Sino-Soviet and Sino-	12
United States military balance.	12
b. (S) Develop an analytical framewor! for evaluating the	14
net strategic impact of conventional arms and technology	. <u>1</u> 5_
transfers across a broad range of tachnologies	16
e. (ي Redefine credible threat to US interests, taking	17
Into account the above analysis.	<u>. 18</u>
d. (C) Establish a more rigorous subdefinition of the	-19
Special Mission Aleus.	20
	<u>21</u>
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에 발생하는 기계에 가장하는 것이 되었다. 그렇게 되고 있어 기계를 하는 것을 받았다고 있다면 함께 되었다. 2011년 - 1일	27
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JCSM-211-83 Enclosure B	, · · · · · · · · · · · · · · ·

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2. (a) The attached assessment by the Joint Chiefs of Staff has been adopted as the DOD position. I recommend that it form the attracegic foundation for the new policy in regard to the transfer of advanced technology and conventional, arms to China.

Attachment

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MEMORANDUM FOR THE SECRETARY OF STATE

THE SECRETARY OF DEFENSE THE SECRETARY OF COMMERCE THE SECRETARY OF ENERGY

THE DIRECTOR OF CENTRAL INTELLIGENCE THE CHAIRMAN, JOINT CHIEFS OF STAFF

SUBJECT:

Implementation of Export Control Changes for China 487

August 30, 1983

On June 9, 1983, the President directed that the export control category for the People's Republic of China be changed from Category P to Category V, in accordance with our policy to treat China as a friendly, non-allied country. This change will not affect our obligations to the international coordinating committee. All items subject to multilateral review will continue to require referral to the COCOM. (S)

An interagency Steering Committee was established under the NSC Senior Director for Political-Mi'itary Affairs to establish a national security framework for technology transfer to the PRC.

An interagency group stablished libe alized guidelines for the review of export licenses for China. "Green Lines" were established for cases to be processed by the Department of Commerce without review by the Department of Defense for national security purposes. For major export categories, goods whose export would not threaten United States security interests or which do not significantly enhance China's unique capabilities in certain specified critical areas were included below this line. In addition, a "Red Line" was established for a few, narrowly proscribed areas where there would be a very strong presumption of denial for exports of sensitive goods and technologies. Advanced technical capabilities whose acquisition by China would threaten United States security interests were included in this area. (5)

The Joint Chiefs of Staff identified six Critical Military Capabilitles--Nuclear Weapons and Delivery System, Anti-Submarine Warfare, Intelligence Collection, Power Projection, Electronic Warfare, and Air Superiority. Noting that current Chinese capabilities in these areas are limited, and are likely to remain so through the 1990s, only a large-scale infusion of the most advanced Western technology to broad military modernization could significantly increase China's ability to threaten the United States or its interests and allies. Development of that type of military power would indicate a change in PRC intentions and would presage review of the overall relationship.

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The Joint Chiefs of Staff recommended against the transfer of:

a) Basic production technologies at their most advanced

stages that are related to commodities controlled for national

security purposes; b) State-of-the-art, military-related

technologies and weapons systems; and c) Sensitive military
related technologies that the United States shares only with

its closest allies or maintains under vigorous unilateral

control. The JCS also indicated that technologies of lesser

capability are not likely to raise Chinese military capabilities

to threatening levels. (S)

In accordance with these findings, United States policy should provide China with the technical capabilities to build a modern economy in order to strengthen China's technical and military capabilities in ways which do not threaten United States interests, including the security of United States allies in the region. United States export licensing practice should limit those exports to China that would make a key contribution to identifiable Chinese military programs in the six critical areas in such a manner as to threaten United States national security interests. (3)

Applications falling between the Red and Green lines should be disapproved if the transfer would provide a specific, new critical capability or significantly enhance existing performance in one or more of the six critical capabilities; if the extention of the risk to the United States and its ability to respond would be such as to threaten United States security interests to an extent that exceeds the level of manageable risk as defined in the JCS study; if China in fact has the ability to effectively integrate the technology into advanced weapons sytems; if the national security risk is not offset by the national security benefits that could be derived from constraining Soviet military resources; and if effective safeguards against diversion to military end-uses cannot be devised.

Export licensing to China should be reviewed twice annually of determine if the technical levels of licensing should be adjusted, consistent with United States security interests. Continuing effort should be devoted to the establishment of Green lists for other product categories from the commodity control list. The Steering Committee should meet at least quarterly to review the licensing process, to evaluate expansion of either the Green or Red list, to consider other steps to improve the licensing process, and to ensure that broader policy considerations are taken into account.

FOR THE PRESIDENT:

William P. Clark

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