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Doing Business Smarter: A Proposal for Consolidating NSA's Analysis and Reporting of Foreign Spaceborne Reconnaissance

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(U) A clear, cohesive definition of counterintelligence (CI) has proven elusive for the United States government. George F. Jelen, director of Operations Security at NSA, argues this confusion stems largely from competing senses in which the term counterintelligence is used. In one sense, counterintelligence is restricted to "... those activities aimed at identifying and neutralizing..." the intelligence collection efforts of an adversary. On the other hand, a broader sense of counterintelligence includes "... the full range of all endeavors aimed at countering the effects of an adversary's intelligence efforts." Jelen also describes how the intelligence community, in an effort to bridge the gaps between these competing viewpoints, developed the idea of multidisciplinary counterintelligence:

... the examination of the capabilities of all hostile intelligence collection systems in an integrated, multi-source fashion to define the magnitude [and] scope of the hostile intelligence threat to the United States and its national interests. It also includes the assessment of the vulnerability of specific targets to that threat.²

This broader sense of counterintelligence, encompassing the full range of defensive intelligence disciplines as well as their interactions and applications, forms the basis for the present proposal.

(S-CCO)—Various offices scattered throughout NSA's Operations Directorate (DDO) perform a counterintelligence function, most notably in Operations Groups A, B, P, W, and Z. Additionally, Agency elements outside DDO, such as Operations Groups M and X, contribute to the Agency's overall counterintelligence effort. By scattering NSA's counterintelligence roles throughout diverse organizations, the Agency has imposed upon itself a burden which hinders timely and comprehensive CI analysis and reporting.

— (S-CCO)—Consolidation of the Agency's scattered counterintelligence efforts would allow for improvements in the way NSA's CI customers' information and analysis needs are met. Not only would consolidation improve the timeliness and comprehensiveness of analysis and reporting, but also a single Agency CI focal point would be capable of presenting more in-depth and insightful analyses. A greater understanding of the threat, in turn, allows for increased protection from hostile foreign activities and improves the overall security posture of present and future activities across the entire spectrum of U.S. government interests. Sun Tzu, writing about 475 B.C., pointed out the importance of both

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intelligence and counter-intelligence, expressed as an awareness of what an enemy might seek to know:

If I am able to determine the enemy's dispositions while at the same time I conceal my own then I can concentrate and he must divide. And if I concentrate while he divides, I can use my entire strength to attack a fraction of his.... The enemy must not know where I intend to give battle. For if he does not know where I intend to give battle he must prepare in a great many places. And when he prepares in a great many places, those I have to fight in any one place will be few....

[D]etermine the enemy's plans and you will know which strategy will be successful and which will not.

Agitate him and ascertain the pattern of his movement.

Determine his dispositions and so ascertain the field of battle.

Probe him and learn where his strength is abundant and where deficient.

The ultimate in disposing one's troops is to be without ascertainable shape. Then the most penetrating spies cannot pry in nor can the wise lay plans against you.³

(TSC) Viewed in the broad context of multidisciplinary counterintelligence, SIGINT contributions from NSA include,

These efforts

combine to present a greater picture of what real or potential enemies of the United States might seek to know. As Sun Tzu pointed out, foreknowledge of the enemy's efforts increases one's own ability to anticipate events and protect activities. One of NSA's SIGINT counterintelligence efforts, the exploitation of signals associated with foreign spaceborne reconnaissance activity, provides valuable input to our understanding of the strategic intelligence sought by foreign powers and is often overlooked. This paper will focus on these efforts to illustrate and propose a means by which the Agency might better serve both internal and external customers interested in this aspect of foreign intelligence collection.

CHANGES IN THE INTERNATIONAL ENVIRONMENT

(U) With the collapse of the Soviet Union, the United States finds itself in the midst of a crisis. Having spent almost fifty years watching and preparing to fight the only other existing superpower, America must now seek to understand a world full of new, previously overlooked threats. The Soviet collapse shifted international affairs attention from the relative safety and comfort of a well-understood bipolar world. Instead of the anticipated unipolar Pax Americana, the United States finds itself challenged on numerous fronts by problems previously ignored or understood only in the larger bipolar context. The intelligence community, like the rest of American government and society, must reexamine the nature of the evolving international system in order to reach an

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accommodation with events. Foregoing such an accommodation condemns the United States to a seemingly endless routine of lurching from crisis to crisis.

-(C) Along with the need to come to an understanding on the changing international system, the intelligence community must also learn to anticipate and adapt to a more dynamic international environment. As the nature of relations between states changes, so too will the threats faced by the United States. To deal with these ever-changing threats to national security and national interests, the intelligence community has been called on to move forcefully toward better anticipatory analysis. National Security Directive (NSD) 47, signed by President George Bush on 5 October 1990, puts the onus of adaptation squarely on the intelligence community's shoulders:

By the end of the 1990s, we will probably see a markedly different threat environment. This dynamic situation requires thoughtful and systematic CI and SCM [Security Countermeasures] planning, resource commitment, and imaginative implementation. We must enhance our ability to anticipate the scope and pace of changing intelligence threats and to respond with successful operational initiatives.5

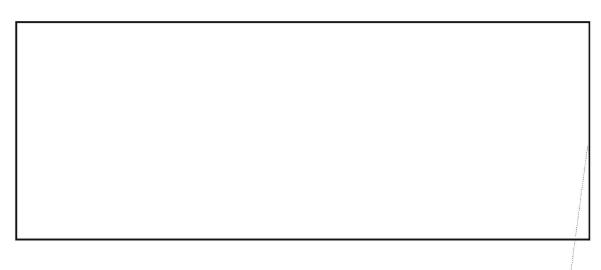
(S-CCO) For NSA to i	fully participate in and contribute to this effort, the separation
and division of effort wit	hin the Agency must be reexamined and, where indicated,
adjusted to better meet th	ne demands imposed by a dynamic threat environment, a new
international order, and i	increasing budgetary and resource constraints. In short, the
Agency must strive to pr	oduce intelligence in the most efficient and effective manner
possible.	writing in Cryptologic Quarterly, argues the Agency will of
necessity undergo a para	digm shift: an almost complete rethinking and adjustment of
perspective to better cope	with external obstacles while continuing to serve the political
and military needs of the	Agency's customer base. NSA will be required to shift its
emphasis toward new targ	ets while maintaining continuity with the old. ⁶

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(S-CCO) To meet the competing requirements posed by world events and domestic considerations, NSA will find itself striving to anticipate policy-makers' information needs and world events more than ever before. Even if the international system did not produce a myriad of new challenges, budgetary and resource scarcity, along with the prospect of budget and resource reductions continuing, will force NSA to become better at predicting the future if it is to maintain present levels of quality intelligence production. Successful anticipation rests on an understanding of the number, direction, and nature of threats which may at some point face the United States. Knowing what information existing or potential enemies are collecting against the U.S. is one key indicator of the possible direction, timing, and scope of threats. Successful anticipation, in turn, allows for more efficient resource allocation, better protection of American activities and interests, and a chance to significantly reduce or eliminate the susceptibility to damaging surprises.

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FOREIGN SPACEBORNE RECONNAISSANCE

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(U) Spaceborne reconnaissance, often referred to as national technical means of intelligence collection, serves a number of functions. The most frequently noted function is the monitoring of strategic weapons systems as part of the arms treaty verification process. The United States, the Soviet Union, and now Russia, have depended on spaceborne assets to maintain cognizance of weapons of mass destruction and of the means to deliver those weapons. Such reconnaissance has formed the backbone of verifying treaty compliance since the first Strategic Arms Limitation Agreement between the U.S. and USSR. Without this capability, SALT I and subsequent treaties would have collapsed as meaningless, unenforceable agreements. The verification aspect of these treaties, provided by the national technical means of the U.S. and USSR, is arguably the single element guaranteeing the successful negotiation of each subsequent treaty. There is no reason to expect the importance of national technical means of arms control compliance verification will diminish in the future, particularly given the uncertainty raised by the division of the former Soviet arsenal between Russia, Kazakhstan, and Ukraine. Indeed, with the breakup of the monolithic Soviet arsenal and the apparent difficulties encountered in multilateral efforts to dismantle former Soviet delivery systems outside Russia, both Russia and the United States may find it in their interests to increase overhead arms control monitoring.

—(S) Beyond arms control monitoring, spaceborne reconnaissance assets provide a window through which strategic planners can watch for indications of hostile military activity. The warning role afforded by these assets is critical for advanced preparation and successful countermeasures. While more conventional means of military monitoring, such as human intelligence and communications intelligence, can be largely defeated by careful operational and communications security activities, spaceborne reconnaissance assets are less likely to miss key threat indicators. The degree of spaceborne warning success will, however, depend on the technical capabilities and extent of the deployed system.

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THE CHALLENGE: NON-RUSSIA	z

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EO 1.4.(c)	(S-CCO) One previous proposal to create an Agency counterintelligence center was geared to boost intelligence production efforts while forging a closer working relationship with other interested government agencies. This effort failed, probably because of opposition from B Group. Similar efforts to create an Agency counterintelligence center may suffer the same fate, regardless of national requirements. Rather than establish a new, larger organization likely to be targeted in bureaucratic wrangling, the Agency might best meet the CI challenge ahead by establishing a CI staff with responsibilities to
The state of the s	coordinate widespread Agency efforts.
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	would
	necessarily function with representation from Operations Directorate elements presently
	involved in some aspect of the target. Regardless of the staff's specific internal organization, representatives from Groups A, B, and W are critical for the staff's success.
	Failure to effectively combine the talents and perspectives represented by A, B, and W
	would prevent the staff from achieving the fusion of perspectives needed to fully
	understand the changing CI threat environment. Input, either in the form of integrees or
	through close daily working relationships, from other DDO and non-DDO elements is
	equally essential to meet the diverse interests and requests from customers throughout
	the government. If the counterintelligence effort represented by the staff is to truly
	demonstrate an Agency commitment to analysis threat in its broadest context, active involvement is necessary from cryptanalytic, policy
	and plans, security, and operations security elements throughout the Agency.
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SURMOUNTABLE HURDLES

—(S-CCO) Bureaucratic difficulties can be expected. Virtually any time an organization as large and complex as NSA seeks to redefine itself or its component missions, it must first overcome bureaucratic inertia. By treating these difficulties as challenges to be met, rather than as barriers to progress, the Agency can proceed with its stated drive to increase efficiency and productivity despite growing budgetary and resource constraints. Beyond anticipated difficulties in deciding the location, authority, responsibilities, and subordination of a new staff, the Agency can expect a number of other issues to resolve. Foremost among these may be the various levels of security and compartmenting present in related elements of A, B, and W Groups. Agency-approved clearance and compartment levels should pose little additional problem, but the controls exercised by outside Agencies granting accesses must be anticipated and resolved early. A

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Since outside agencies control some accesses, negotiations for granting additional clearances should be undertaken early.

(S-CCO)—Automatic data processing (ADP) and computer support pose additional challenges requiring resolution for the creation of a smoothly functioning staff. Operations Groups A, B, and W presently operate a wide variety of computer systems, some of which have to be incorporated for use by the staff. The staff's charter of responsibilities, however, will guide the selection and allocation of appropriate computer and ADP systems and equipment.

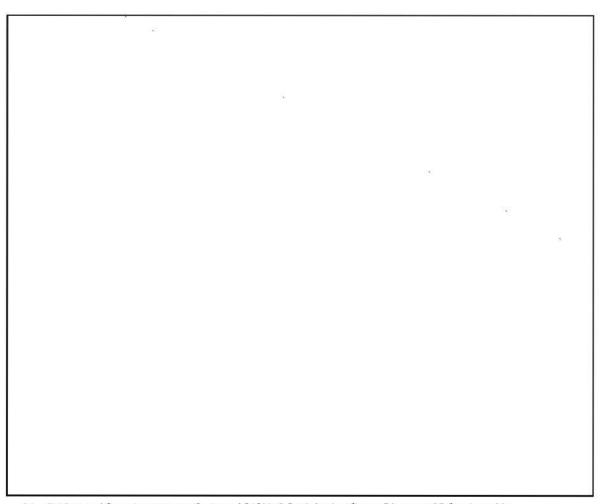
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	Only by
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	recognizing and accepting the need to anticipate future threats to the United States, along
	with a determination to meet those threats early can the Agency make the most efficient

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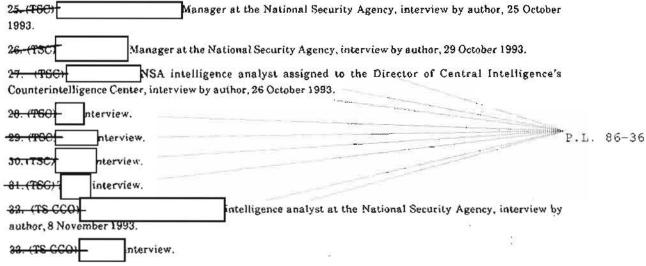
and effective use of limited resources.

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	-9. (TSC)-Operational folders maintained by NSA/A952.
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	11. (TSC) Operational folders maintained by NSA/A952.
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"Restructuring the U.S. SIGINT System for Tomorrow's World." P. L. 86-36

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