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Chinese Nuclear Testing: Racing Against a Comprehensive Test Ban

Joint Intelligence Memorandum

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Joint Intelligence Memorandum	
Office of Scientific and Weapons Research	30 September 1994
Chinese Nuclear Testing: Racing Against a Comp	rehensive Test Ban
China is expected to conduct at least six more underground norder to complete its nuclear weapons modernization program. China's modernization objectives and profin warhead development for ICBMs and SLBM systems and profin warheads that are planned for the enduring stockpile. If Completing its modernization program objectives on schedule concluding a Comprehensive Test Ban Treaty (CTBT) in 199 delay of the remaining tests could result in additional tests, was acceptance of a CTBT.	n, ectives include completing grams to enhance confidence Thina is successful in , it will probably support 6. However, a failure or
The Chinese are exploring ways to make their warheads smal	ler and safer.
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Introduction		
Other objectives of the modernize increasing the understanding of effects testing, improving the satthermonuclear warheads for future of the satthermonuclear warheads.	pons modernization programation programation program are compishing safety and confidence to adhere to a Comprehensitation program probably included in the confidence of the	m. The underground testing is The likely objectives of the leting warhead development for e in the reliability of the enduring ve Test Ban Treaty (CTBT). Elude developing safer warheads, hing vulnerabilities through and possibly developing smaller
nuclear weapons states (NWS), i a future CTBT. China has condu- probably has the smallest numbe Beijing continues to publicly sup continue testing until national see believe China probably will adhe	ts modernization program vacted fewer nuclear tests that of warhead designs availated port the successful conclusionity goals have been accorded to a CTBT.	yould be affected the most under in the other weapons states and ble in its stockpile. Although ion of a CTBT, it is likely to inplished at which time we
To date, Beijing's position in the Disarmament in Geneva have been nuclear arms control agenda but at the other NWS are not in agreem maneuver to keep its options open include provisions such as no-first non-use of nuclear weapons again marginally related to a CTBT. On nuclear explosions, creating an in in the atmosphere and space, and for CTBT violations are clearly options.	an largely designed not only also to prolong conclusion of the conserveral key aspects on as long as possible. The Control use of nuclear weapons by list all non-NWS that are control ther Chinese proposals such ternational satellite system its proposals.	to assert its longstanding of a CTBT. China is aware that f a test ban, and it is expected to chinese delegation has sought to the NWS and assurances of insidered as being only as the right to conduct peaceful for detecting nuclear explosions
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Nuclear Test Activity Through June 1994 the Chinese have conducted 39 nuclear tests Nuclear tests conducted over the past few years seem to indicate that China is probably modernizing its nuclear stockpile.	Scoret-
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	Modernizat	ion of the Nuc	lear Force		<u></u>	<u></u>
	Although the	specific purpo	ose of each Chin rnization goals.	ese test is unl	inown, our anal	ysis indicates the
			mzarion goars.			
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	The Chinese	have expressed	a strong interes	at in improvin	o the cafety and	reliability of their
,	nuclear stock	pile.			g the statety and	remainity of their
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technology and would require multiple tests to gain confidence in the design. Since most of China's nuclear warheads are currently targeted against soft targets, yield enhancement (typically a doubling of warhead yield in submegaton warheads) of oralloy warheads would have a negligible effect on targeting effectiveness.

Outlook

The Chinese apparently believe they can achieve their modernization program objectives in the six remaining tests, assuming the tests are successful. We believe that China's first priority is to complete new warheads for a number of systems under development, most notably

If significant problems occur in the remaining tests, China is likely to postpone adherence to a CTBT in 1996 to ensure its confidence in the reliability of the enduring nuclear weapons stockpile. The new warheads that China is developing may use more advanced concepts such as aspherical primaries and possibly a type of IHE. An insufficient number of tests remain for incorporating all these concepts into the existing stockpile.















