

J130(A83)

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Proposal Abstract J130(A83)

1. **Arms Control Problem:**  
Nuclear weapons - research and development
2. **Verification Type:**
  - (a) Remote sensors
  - (b) On-site inspection - selective
3. **Source:**  
Paine, Christopher. "Freeze Verification: Time for a Fresh Approach". Bulletin of the Atomic Scientists 39 (January 1983): 6-9.
4. **Summary:**  
The author suggests that a freeze on all testing, production and deployment of nuclear weapons could be adequately verified. Large parts of a freeze could be verified by national technical means and those which could not are at least partially verifiable by cooperative measures including on-site inspections. The military significance of developments which escape detection would be marginal in comparison with existing arsenals. The Soviets would be deterred from cheating because detection would lead to renewal of the arms race and a confrontational atmosphere. Verification of the most significant aspects of the agreement with moderate to high confidence and with low to moderate confidence for the remaining provisions would be sufficient to deter Soviet cheating.