

J135(A77)

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Proposal Abstract J135(A77)

1. Arms Control Problem:

- production
- stockpiling
- destruction of stocks

2. Verification Type:

- (a) Remote sensors
- (b) On-site inspection - selective
- (c) International exchange of information

3. Source:

Mikulak, Robert. "Preventing Chemical Warfare". In Chemical Weapons and Chemical Arms Control, pp. 65-80. Papers from a conference at the American Academy of Arts and Sciences, Boston from 21-22 January 1977. New York: Carnegie Endowment for International Peace, 1978.

4. Summary:

The author considers the effectiveness of chemical weapons and the defenses against them. He looks at possible methods for preventing chemical attack and concludes that maintaining a marginal offensive chemical warfare capability as a deterrent and producing incapacitants as a deterrent or retaliatory measure have little value. The best solution is to improve defenses against chemical attack and combine that with arms control.

Verification of an arms control agreement which prohibits the development, production, stockpiling or transfer of chemical weapons and requires the destruction of existing stocks would be difficult. Remote sensing is not useful because there are no observable features of chemical weapons agent production and storage. On-site inspection would not necessarily provide a high level of assurance of compliance, but could be effective in the particular task of verifying the destruction of declared stocks. A verification regime could utilize the following techniques: (1) exchange of data on chemical production, existing stockpiles and facilities; (2) on-site inspection of destruction of stocks and shut-down facilities; (3) inspection of facilities where prohibited activities are suspected; and (4) national technical means of verification.

In order to overcome the problem of verifying complete destruction of stocks, it would be possible to use a phased approach in which the prohibition might apply to all chemical weapons-related activities, but only for specified agents.