

K23(G75)

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Proposal Abstract K23(G75)

1. **Arms Control Problem:**
Nuclear weapons - comprehensive test ban
2. **Verification Type:**
Seismic sensors
3. **Source:**
United Kingdom. "Working paper on safeguards against the employment of multiple explosions to simulate earthquakes". CCD/459, 24 July 1975.
4. **Summary:**
The paper describes a technique of detecting the possible evasion of a CTB. The evasion method of concern is simulation of an earthquake using multiple nuclear explosions. The detection technique involves broad band seismic discrimination. The results of experimentation suggest that one could identify the explosive origin of components within a series of blasts, with yields of 50 kt or more. Further improvements would add to the uncertainty any potential violator must face.