

PART II TREATY REQUIREMENTS AND OPTIONS AVAILABLE AT DIFFERENT TARGETS

The contents of this chapter are summarized in the Table 2 on page 32.

A. Declared storage facilities

The purpose of the verification in storage facilities is "to confirm ... the accuracy of the declarations made (by States Parties)". The inspectors "shall verify the quantity and identity of chemicals ...". (CD/952, page 76)

1. Sampling and analysis

(i) Sampling

The main problem in the verification of the accuracy of the declarations concerning the stocks stems from the fact that the number of munitions is very large.

The problems connected with sampling can be reduced by using non-destructive non-intrusive instrumental techniques (so called interrogation techniques). This will, however, also reduce the level of assurance. The extent of this reduction would depend on the combination of sampling and interrogation that is applied. Mathematically sound and statistically valid methods can be used for calculation of confidence levels achieved by different numbers of randomly selected munitions taken for sampling.

To illustrate the options available the following five possibilities can be presented:

- 1) Sampling of every munition
- 2) Sampling of statistically determined representative number of each type of munitions
- 3) Combination of non-destructive interrogation techniques and sampling of fewer statistically determined number of munitions of each type
- 4) Relying entirely on non-destructive interrogation techniques
- 5) Identifying the agent only by looking at and counting the munitions without any sampling.