

- to ensure confidence, data used for verification should be as closely linked as possible to the actual destruction step;
- monitoring and inspection procedures should be designed to minimize interference with the operation of the destruction facility, while providing effective verification;
- to the extent consistent with verification needs, monitoring and inspection procedures should make use of data generated during routine facility operations;
- to the extent consistent with verification needs, common procedures should be used for different destruction processes within the same facility;
- close co-operation between international verification personnel and host state operating personnel is important for effective international verification.

A. In situ incineration at CAMDS

Figure 4 outlines the verification procedures discussed below.

For all liquid agents, including GB and VX the identity and purity of the material being destroyed could be confirmed by sampling it immediately before the item enters the metal parts furnace system and analysing the sample automatically with an on-line, dual-column gas chromatograph. At CAMDS samples could be taken from munitions with the automatic drain probe already built into the machine used to remove buster wells and drain projectiles. For bulk items, a slight modification of the operating sequence would be needed. Rather than transporting the item directly from the munition holding area to the metal parts furnace, the item would go first to the area equipped for draining bulk items. A sample could be obtained using the draining lines. The sample would be analysed automatically with an on-line, dual-column gas chromatograph. A different sampling procedure would be needed for mustard agent, since the pure agent is a solid up to about 15 degrees Celsius. One possibility would be to sample and analyse volatilized agent where it enters the primary fume burner. (This procedure would be unsuitable for the nerve agents since they already decompose at this stage.)

Since only one agent and one type of item would be processed during a given period, the same gas chromatograph could probably be used for all analyses, although it might have to be shifted from one part of the facility to another, depending on what was being destroyed. (Such an analytical system is not currently installed.)