

items that were intended, by declaration, to be destroyed would indeed be destroyed.

The proper operation of the facility could easily be monitored by collecting data on the status of the facility equipment. Access to the control room data would provide the necessary information. It would probably be necessary for the inspectors to have some independent local data processing capability. These data and their associated processing system would constitute the local processing system of the Organization; it would provide the inspectors with needed information on a real-time basis. If the official data base is to reside at the headquarters of the Organization, the central information processing system must have access to the local system through some data transfer mechanism. The characteristics of the data link between the central and the local system would depend on the volume of data being transferred and on the frequency of such transfers.

Verification of the destruction of the declared items would require a) verification of the identity of the items being destroyed, and b) verification of the quantity. One approach to confirming the identity of the contents of a projectile or similar item would be to verify the operator's declaration by independent means such as sampling and analysis or non-destructive evaluation. This approach would require the use of equipment maintained and operated by the Organization. Another approach could be to develop an operating profile of the facility and the destruction process for each type of agent being destroyed. In the latter approach the role of the Organization would be to monitor the operating profile of the plant in order to confirm the declaration of the chemical. The required information would be derived from a set of sensor data that would be collected and processed by the Organization. As in the former scenario, there would be a need for both a local and a central system linked by some type of data network.

Verification of the quantities of items being destroyed would be an accounting function. Since these destruction activities would be depleting the initially declared stock, there should be in place a real-time inventory control system. Daily information from the destruction facility could be transmitted to central headquarters for continuous update and analysis of the official stocks.

Similar kind of access from the field to central headquarters could be useful for other routine activities of the Organization. Routine monitoring of stockpiles might also require reference to past information. One approach might be for the inspectors on routine visits to the site to carry with them all data on computer disks or stored in portable computers. An alternative would be to have a small portable computer with a modem, as a portable terminal to establish direct communications with the central computing facility. Standardized reporting formats would allow the inspectors to interact directly with the central computers.