

The quantity of agent being destroyed would be determined by using an accurate flowmeter near the inlet of the liquid incinerator. However, uncertainty exists about whether sufficient accuracy is possible. If not, it would be necessary to weigh items, using load cells, before and after they were drained and to establish, through inspection, that no diversion pathways existed. A system would be incorporated to detect efforts to cut into the agent drain line ("continuity check").

Methods for confirming actual destruction would be similar to those for the in situ process; thermocouples would be used to measure the time-temperature profile of incinerator, and the flow rate through it would be determined with an orifice plate. The destruction of metal parts would be monitored visually.

The measures necessary to ensure security of data, including the use of television surveillance systems at key points, are discussed in Section V below.

C. Inspectors

The verification procedures described above are intended to provide an optimum balance between monitoring with sensors and inspection by verification personnel. To some extent, use of sensors can reduce the inspection burden. However, continuous presence of inspectors during periods of destruction operations is essential for accomplishing certain technical tasks, particularly visual surveillance and ensuring that automatic sampling and analysis equipment is operating properly.

The functions described above would require a minimum of two inspectors to be present during each operating shift to monitor data from sensors and to conduct visual surveillance and at least one during each maintenance shift. During non-working shifts, sensors such as film cameras triggered by motion in the field of view or television cameras would suffice.

CAMDS has a 10-hour operating shift and a 10-hour maintenance shift, followed by a 4-hour non-working shift. Thus, for CAMDS, a minimum of three inspectors present for duty would be adequate. To accommodate illnesses and other absences from duty, a slightly larger number would have to be assigned to the facility.

The inspectors should all have technical backgrounds, be familiar with CW destruction operations, and receive special training as inspectors.