

Efficiency and safety of the plant were tested by checking:

- the correspondence to the project's characteristics of the machinery and equipment;
- the neutralization chemical process by employment of non-toxic simulators;
- the "risk prevention" and the "first alarm" by the simulation of possible damages and accidents.

The use of a control computer to run the plant and locate possible breakdowns is included.

The plant passed the test runs, using also a pilot reactor. In this phase 1.5 metric tons of mixture Y-PhDA have been destroyed with batches of 20-25 kg.

The industrial phase will begin within a few days and will allow for the destruction of 250 kg of mixture per batch.

### 2.5. Costs

The cost of the destruction plant was US\$ 2,100,000. The operating costs per year amount approximately to US\$ 170,000. The costs of the personnel operating the plant (8-10 people) amount to US\$ 200,000. Taking into account all costs factors, the costs for the destruction of 1 kg of mixture amount roughly to US\$ 18-20.

### 3. Other plants

In a later moment, after having discovered a certain quantity of old and obsolete rounds and an important amount of adamsite, it was considered necessary to cope also with these new problems.

Two further plants, the first for the discharging of old and obsolete chemical rounds and the second for the demilitarization of adamsite mixed with inert materials, are planned.

#### 3.1. Automatic plant for discharging old chemical rounds

The plant will be constituted by:

- a structure for the execution of radiographies;
- a structure for the discharging of rounds;
- a command and control room.