

## SCHEDULE 15

### TEST PROCEDURES

#### PART II—

#### TESTS FOR SPECIAL FORM RADIOACTIVE MATERIAL

##### **Leaching and volumetric leakage assessment methods**

**10.** For specimens which comprise or simulate radioactive material enclosed in a sealed capsule, either a leaching assessment or a volumetric leakage assessment shall be performed as follows:

- (a) the leaching assessment shall consist of the following steps:
  - (i) The specimen shall be immersed in water at ambient temperature. The water shall have an initial pH of 6–8 with a maximum conductivity of 1 mS/m at 20°C.
  - (ii) The water and specimen shall be heated to a temperature of (50±5)°C and maintained at this temperature for 4 hours.
  - (iii) The activity of the water shall then be determined.
  - (iv) The specimen shall then be stored for at least 7 days in still air at a temperature not less than 30°C.
  - (v) The process in (i), (ii) and (iii) shall be repeated.
- (b) The alternative volumetric leakage assessment shall comprise any of the tests prescribed in the ISO leak test document which are acceptable to the Secretary of State.