

STRONTIUM-90 CONTAMINATION MONITOR CHECK SOURCE

This certificate provides details of a Strontium-90 check source that has been provided to allow the operator to confirm that radiation contamination monitors are operating correctly.

CERTIFICATED INFORMATION

Radionuclide	: Strontium-90 / Yttrium-90
Source Reference	: Lot#1246-13-3
Date of Manufacture	: June 2007
Nominal Activity Value	: 100 Becquerels Strontium-90
Half-life of Radionuclide	: 28.5 Years
Predicted Working Life	: 5 Years from date of manufacture

PROCEDURE FOR TESTING MONITOR OPERATION

1. Switch on monitor and select CPS mode.
2. Place the monitor probe in contact with the external front surface of the source holder.

Allow the reading to stabilise and confirm that the analogue meter (or digital simulation) and digital readout values are consistent. The reading for this check source would be expected to be in the range - 50 cps.

It would be expected that if there is a problem with the monitor, a zero reading or error message will be visible.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

1. The source radionuclide Strontium-90 will be in equilibrium with its radioactive daughter product Yttrium-90.
2. The item is classed as an 'Instrument Test Source' and as such is exempt from registration under European legislation.
3. The source is a deposited and evaporated metallic salt with outer diameter 5mm and active diameter 1mm. The encapsulation is Kapton at 9mg cm⁻². Prior to supply, this source has been leak-tested using a standard wipe test.
4. Disposal of this source at the end of its useful working life does not require an authorisation under RSA93.

RECOMMENDATIONS

1. Keep the test source in a safe location, ideally away from the work area and check correct monitor operation before use.
2. Do not place the test source in personal clothing or remove from its containment.
3. Avoid bringing the surface of the test source in contact with abrasive materials or solvents.
4. Ensure this certificate accompanies the test source at all times.
5. In the event of difficulties, contact the following address:-

Tracerco
Tracer Technology Centre
Pavilion 10, The Moat
Belasis Hall Technology Park
Billingham
Cleveland
TS23 4AZ
Tel : +44 (0) 1642 375450 / 375451

Signed



Date

21/1/09