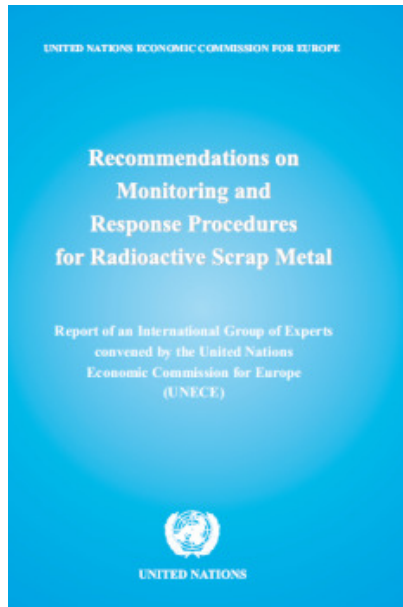


MetroMetal é um projecto de metrologia aplicada à indústria

- A Metrologia é central para a passagem dos padrões primários e métodos de calibração para aplicações em benefício da indústria, comércio e da sociedade
- A certificação do aço feita com base na rastreabilidade das medidas permite a criação de relações de confiança entre os intervenientes no processo.
- A Metrologia pode ser o veículo para a competitividade das empresas fazendo a ponte entre investigação e industria.



Specific Recommendations - National Responsibilities

1. The owner of radioactive sources or material has obligations under national legislation to keep radioactive sources and material safe and secure while they are in use and for arranging their safe storage, transport or disposal after their period of use. In the event of a radioactive source or material being lost or removed from control, the source or material owner should remain responsible.
2. The seller of the scrap metal (who is usually the consignor for the shipment) is usually responsible to the buyer of the scrap metal, by contractual obligation or by national regulations, to provide a product free of added radionuclides. If the seller is so contractually or legally bound, the seller should arrange for radiation monitoring to be performed on the scrap metal at the point of origin and to provide a certificate indicating the results of that monitoring. An example of a certificate of shipment monitoring is attached as [Annex I](#). The seller should provide appropriate training of involved staff.
3. The carrier (or carriers) of the scrap metal could be held responsible for the material being carried, for example, in circumstances where the owner of the shipment is not known. In this and similar situations, the carrier should either monitor the shipment for radiation, or request a certificate from the seller (i.e. the consignor) of the scrap metal that the load has been appropriately monitored (see [Annex I](#)).
4. National Customs or border authorities should be concerned to prevent the import or export of unauthorized and potentially hazardous material and should therefore provide for the radiation monitoring of incoming and outgoing shipments of metal scrap at key border points. They should also provide appropriate training of involved staff.
5. The buyer of the scrap metal (e.g. the owner of the scrap yard, the processing facility or the melting works) should be sure that the material received is free of added radioactive substance. It is therefore in the buyer's interest to require a certificate indicating that the shipment has been monitored by the seller and, in addition, to arrange for monitoring of the scrap metal as it enters and leaves the premises of the scrap yard, processing facility or melting plant. The buyer should provide appropriate training of involved staff.
6. The national regulatory body is responsible under national legislation and regulations for the licensing and regulation of radioactive sources and radioactive material and of facilities for their radioactive waste management. The regulatory body also has responsibilities related to ensuring the safety of workers, the public and the environment in the event of radioactive sources or other radioactive material becoming lost or misplaced (for example, in scrap metal). In some countries, these responsibilities may be shared between different national authorities, for example, Government departments dealing with safety, health, and the environment.

Regulamento do Conselho (EU)
Nº 333/2011 de 31 Março 2011

Monitorização da qualidade da sucata
metálica

Os técnicos qualificados devem
monitorizar a radioactividade de cada
carga de sucata.
Cada carga deve ser acompanhada por
um certificado emitido de acordo com os
regulamentos nacionais e internacionais.

Directiva Euratom *Basic Safety Standards* (24 Fevereiro 2010) (Directiva 96/29EURATOM)

• **Secção 3- Fontes órfãs / Artigo 29 – Contaminação de metal**

- Os Estados Membros devem exigir que:
- a instalação de reciclagem de sucata metálica notifique prontamente as autoridades competentes de qualquer fusão de fontes órfãs e que
- o metal contaminado não seja processado posteriormente sem autorização das autoridades competentes.