



SPECIFICATION

X-Ray generator

1. Scope

This specification describes the requirements for a X ray generator for industrial radiography, hereafter referred as “The System”

2. Technical Requirements

The System shall meet the following technical requirements:

- 2.1.1. X Ray tube voltage adjustable 70 to 2 KV., glass or ceramic tube
- 2.1.2. Direct beam, focal spot 3 mm or less, beam angle. 40°
- 2.1.3. Penetration. 45 mm steel
- 2.1.4. Power. 1500 Watts or less
- 2.1.5. Cooling system
- 2.1.6. Power supply 220V, 50 Hz
- 2.1.7. Control-command unit (remote with cable)
- 2.1.8. HV cable 10 m long.
- 2.1.9. Transportation cases

3. Marking

The System shall have all safety markings in English language.

4. Packing

The System, for the shipment by air to the End-User, shall be packed in accordance with international standards that are applicable for the shipment by air of this kind of equipment.

5. Quality Requirements

- 5.1. The System shall be manufactured, shipped and installed in accordance with the Contractor's ISO quality assurance system or an equivalent quality assurance system.
- 5.2. The Contractor shall document the compliance with this quality assurance system.



6. Testing and Acceptance

The System, prior to shipment, shall be tested for conformance of the System with manufacturer's performance specifications and the minimum requirements specified herein.

The System, after installation, shall be tested by the Contractor together with the End-User to demonstrate that the performance meets the manufacturer's performance specifications and the minimum requirements specified herein as determined by the IAEA and the End-User.

The results of the testing of the System shall be documented by the Contractor in an acceptance protocol that shall be signed by the End-User.

7. Deliverable Data Items

The Contractor shall provide two complete sets of operation and servicing manuals and technical drawings in the English language.
