

## TYPE A Package Manufacturer's Certification

|    |   |                                |                                     |
|----|---|--------------------------------|-------------------------------------|
| 1. | <b>Product Model/Description:</b> Model 880 Delta, 880 Sigma & 880 Elite Gamma Radiography Projectors   |                                |                                     |
| 2. | <b>Package Specifications/Limitations:</b> Devices are welded, steel, cylindrical construction with a locking assembly attached to one end and a guide tube connection assembly attached to the opposite end. The devices may include an optional jacket assembly for ease of handling, but transport of the devices meets the Type A requirements with or without the optional jacket. |                                |                                     |
| 3. | <b>Special Form Source Assemblies Authorized for Transport (Except Yb-169, which can also ship also Normal Form)</b>  |                                |                                     |
|    | <b>Type A Approved Activity (Max.)</b>  | <b>Isotope</b>                 | <b>Source Assembly Model Number</b> |
|    | 27 Ci (1 TBq)   | Ir-192, Special Form           | A424-9, A424-23                     |
|    | 81 Ci (3 TBq)   | Se-75, Special Form            | A424-25, A424-25W                   |
|    | 108 Ci (4 TBq)  | Yb-169, Special or Normal Form | 91810, 91808, 91807                 |
|    | 380 mCi (14 GBq)  | Cs-137, Special Form           | A424-30, A424-31                    |
|    | 65 mCi (2.4 GBq)  | Co-60, Special Form            | A424-19                             |
| 4. | <b>References:</b> Drawings R88000 & R88085, Test Plan Report 100, Test Plan Report 108, Test Plan Report #1 for TP186, Test Plan Report 115, Test Plan 188 Report #1 Rev1, Test Plan and Report 216, and SAR for the Model 880 Series Transport Package.   |                                |                                     |
| 5. | <b>Drawing/Assembly Description:</b> Drawings R88000 (Rev X) & R88085 (Rev A) or later revisions  |                                |                                     |
| 6. | <b>Maintenance and Operational Controls:</b> MAN-027  |                                |                                     |
| 7. | <b>Max Weight of Package:</b> Reference drawings in Section 5 for package weight limits based on 880 style and jacket configuration.  |                                |                                     |
| 8. | <b>Package Closures:</b> The lock assembly must be in the secured position with the selector ring in "LOCK", the dust cover installed and the plunger lock depressed. The front plate port cover must be rotated to the "Shipping" position (see drawings), and a seal wire installed through the front plate port cover to serve as a tamper indicator during shipment.                |                                |                                     |

**Under §173.415, QSA Global Inc. certifies that the package and contents described above comply with relevant requirements for a Type A package under the International Atomic Energy Agency Regulations for the Safe Transport of Radioactive Material, 2009 Edition [No. TS-R-1] & 2018 Edition [No. SSR-6], and USDOT Specification 7A under USDOT 49 CFR 178.350.**

**All documentation of tests, engineering evaluation or comparative data demonstrating compliance of this package design to Type A Specification 7A shall be maintained by QSA Global, Inc. and will be available to regulators upon request.**

**The shipper is responsible for ensuring the packaging conforms fully to the requirements identified on this certification including the assembly, maintenance and operational control requirements specified in Sections 5 & 6. Changes to the package assembly, shipment of material not specified on this certificate or any other non-compliance with the requirements of this certificate are not supported under this certification and will invalidate this Type A approval.**

\_\_\_\_\_  
Regulatory Signature

\_\_\_\_\_  
Date