

TYPE A Package Manufacturer's Certification

1. Product Model/Description: 650L		
2. Package Specifications/Limitations: The container is designed to contain either one or two source assemblies. Each assembly is secured by independent stainless-steel lock slides for each lock mechanism. Fully assembled the package measures 10 inches long, 8 ½ inches wide and 13 ¼ inches high. NOTE: Shipment of the A425-6 (or Yb-169, Co-60 or Cs-137 sources) in the 650L REQUIRES relabeling of the 650L for Type A shipment. These sources cannot ship under the 650L Type B approval/container labeling.		
3. Special Form Source Assemblies Authorized for Transport (All Special Form except Yb-169, which can also ship also Normal Form)		
Type A Approved Activity (Max.)	Isotope	Source Assembly Model Number
27 Ci (1 TBq)	Ir-192	89911 – 13, 89916; 87703; 969; 932; A424-9; A424-23; A424-24; A424-27; A426-1; (T-5, T-5F, G-1, G-3, G-40F, GG-40T, G-60 SPEC); (7, 32, 88 INC); (702 CIS-US); (C337A Nordion)
81 Ci (3 TBq)	Se-75	A424-25, A424-25W, A425-6, A426-2; T-5, G-60 (SPEC)
108 Ci (4 TBq)	Yb-169	91810, A424-26, 91807
380 mCi (14 GBq)	Cs-137	A424-22, A424-30
65 mCi (2.4 GBq)	Co-60	A424-19
4. References: 650L SAR & Test Plan Report 80. SDDR Evaluations: CA-384-S-114-S (6/30/86); CA-384-S-102-U (8/9/72); LA-612-S-106-S (6/1/12); LA-612-S-105-S (10/18/10); 650L/A425-6 Profile Dated 5/26/16.		
5. Drawing/Assembly Description: Drawing R65006 Rev R or later revisions		
6. Maintenance and Operational Controls: MAN-020, SB-25		
7. Max Weight of Package: 90 lbs. (41 kg).		
8. Package Closures: Source tube lock plungers must be engaged and secure. Install shipping caps over locking mechanisms. Install shipping cover to base of unit using four 3/8-16 bolts. Attach a seal wire through two of the cover bolts to serve a tamper indicating seal.		

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