

TYPE A Package Manufacturer's Certification

1. Product Model/Description: 360-2, 360-4, 360-4W, 360-10 & 360-10W		
2. Package Specifications/Limitations: As specified on drawing R360-USER.		
3. Special Form Source Assemblies Authorized for Transport (All except Yb-169, which can also ship as Normal Form)		
Type A Approved Activity (Max.)	Isotope	Source Assembly Model Number
27 Ci (1 TBq) *	Ir-192, Special Form	A424-9, A426-1, A424-23, 87703, 89911, 89912, 89913, 89916, 969, CIS-US 702, INC 7, Nordion TIF, Nordion TSI, SPEC G-60, SPEC T-5F, SPEC T-5
81 Ci (3 TBq)	Se-75, Special Form	A424-25, A426-2, A424-25W, A425-6
108 Ci (4 TBq)	Yb-169	91807, 91810, A424-26
**	Cs-137, Special Form	A424-30
6.6 mCi (360-2) 9.1 mCi (360-4) 13.3 mCi (360-10)	Depleted Uranium	Integral Part of Model 360 Container as Shielding
* Maximum activity per Ir-192 source in the Model 360-10W limited to 17 Ci. Total activity for all Ir-192 sources in package is 27 Ci. Maximum Activity for Ir-192 is defined as output Curies as required in ANSI N432 and 10 CFR 34.20 and in line with TS-R-1 and Rulemaking by the USNRC and the USDOT published in the Federal Register on 26 January 2004.		
** Cs-137 Package Limits: 360-2 is 780 mCi; 360-4 & 360-4W is 1.52 Ci; 360-10 & 360-10W is 3.8 Ci.		
4. References: Test Plan 199 Reports #1 & #2 and Technical Report No.s 224 through 228 & 240; USNRC Type B(U) Certificate USA/9371/B(U)-96.		
5. Drawing/Assembly Description: R360-USER		
6. Maintenance and Operational Controls: MAN-040		
7. Max Weight of Package: 360-2: 110 lb. (50 kg); 360-4: 130 lb. (59 kg); 360-4W: 155 lb. (70.3 kg); 360-10: 170 lbs (77 kg); 360-10W: 180 lbs (82 kg).		
8. Package Closures: The source assemblies are properly secured in the locked position, with the lock slide in the "Lock" position, the plunger lock engaged, and the key removed. Install all dust caps on source securing mechanisms. Secure the cover assembly to package. (Attach a seal wire through two of the cover bolts to serve as 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