

SPECIAL FORM

49CFR 173.476 Approval of special form radioactive materials.

(a) Each offeror of special form Class 7 (radioactive) materials shall maintain on file for at least one year after the latest shipment, and provide to the Associate Administrator on request, a complete safety analysis, including documentation of any tests, demonstrating that the special form material meets the requirements of Paragraph 173.469. An IAEA Certificate of Competent Authority issued for the special form material may be used to satisfy this requirement.

49CFR 173.469 Tests for special form radioactive materials

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| (1) Impact Test | Free fall of capsule from a height of 9 meters onto a granite block of smooth surface. No shattering or breaking observed. |
| (2) Percussion Test | Capsule placed on a 1/2" sheet of lead on concrete. Steel rod 25 mm in diameter by 330 mm long was dropped from a height of one meter. No shattering or breaking observed. |
| (3) Bending Test | Not applicable due to small length. |
| (4) Heat Test | Capsule heated to 800°C (1472°F) with a torch. Maintained for 10 minutes and allowed to air cool. Discoloration, but no melting or dispersement observed. |

Leakage test performed after each test. No activity in excess of .005 microcuries (185 Bq) observed.

The radioactive material encapsulated in CPN International, Inc. stainless steel sealed source capsule, identified as model number CPN-131, has been tested for and is in compliance with the requirements for special radioactive material. IAEA Certificates of Competent Authority have been issued as follows:

<u>CPN GAUGES</u>	<u>ACTIVITY & NUCLIDE</u>	<u>IAEA NO.</u>
MC-1,2,3 & 501/DR	10 mCi Cs-137 and 50 mCi Am-241/Be	GB/024/S and USA/0627/S
503/DR, MCM-2, MC-M	50 mCi Am-241/Be	USA/0627/S
MC-S-24	10 mCi Cs-137 and 50 mCi Am-241/Be	GB/024/S and USA/0627/S
AC-2/R	100 mCi Am-241/Be	USA/0627/S



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