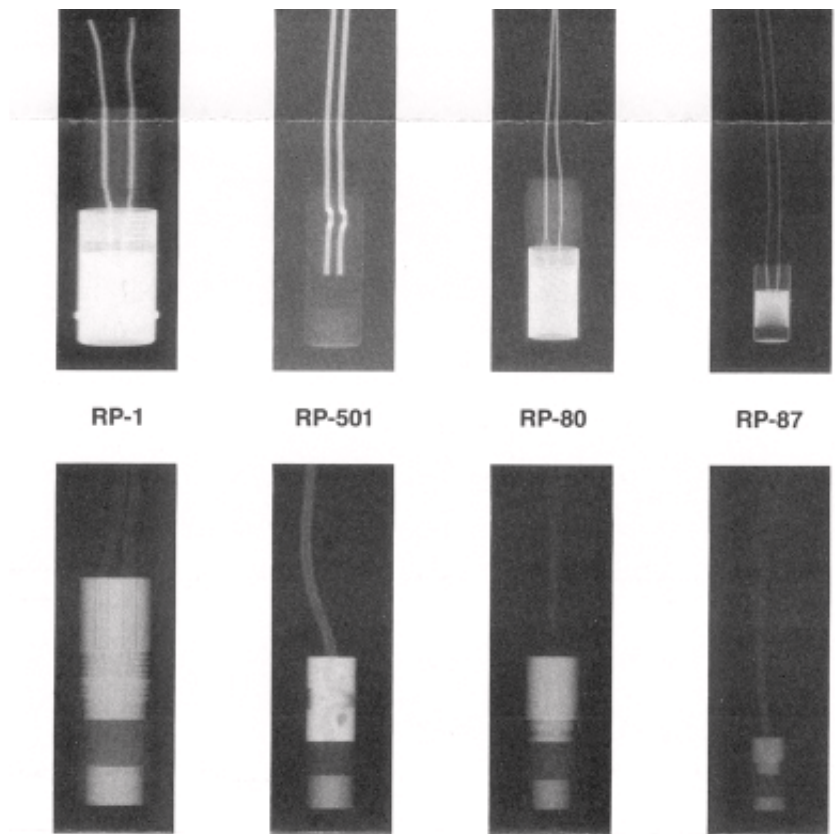




RISI Neutron Radiographs all its explosive products- 100%.

CONVENTIONAL X-RAY



NEUTRON RADIOGRAPH

The figures above show both X-Rays and Neutron Radiographs of various RISI detonators. Whereas the X-Rays do an adequate job on the RP-501, the heavy brass confining sleeves on the RP-1, RP-80 and RP-87 prevent a proper inspection of the low density explosive powder in these detonators. Note how the metal “disappears” in the Neutron Radiographs allowing a detailed examination of the explosive train. Studies have shown that explosive densities can be read on the neutron radiograph to an accuracy of about 5%.

This 100% inspection of all RISI explosive products by Neutron Radiography coupled with 100% continuity or resistance measurements are major reasons why RISI detonators are so reliable. Proven



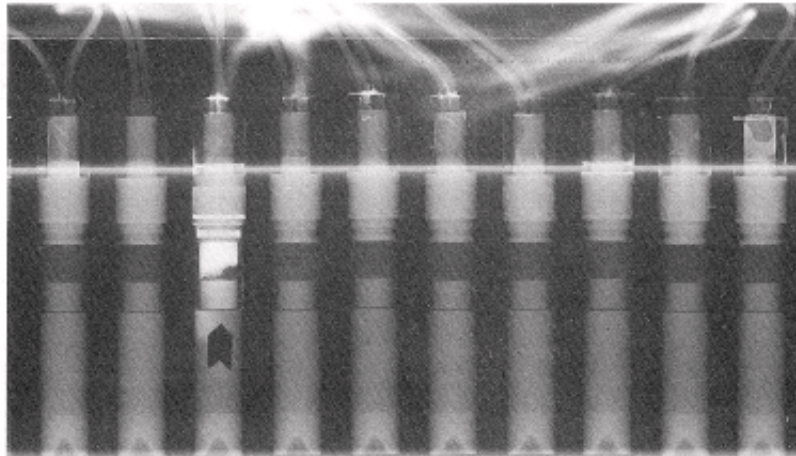
Technical Topics

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failure rates approach 1 in 1000.

RISI also Neutron Radiographs its underwater firesets and detonators (RP-85) to confirm their water-tightness. The completed assemblies are placed in pressure vessels filled with a solution of water and a neutron absorbing material and then pressurized to the desired level. Any leaks allow the neutron absorbing material to enter the part and show up as a bright spot on a subsequent Neutron Radiograph.

RP-85v Inspection Film with reject "Leaker"



The Neutron Radiographs are performed for RISI by Aerotest. (510) 866-1212.

For Technical Contract and
Ordering Information, Contact:



Telephone (925) 866-0650

Fax (925) 866-0564

e-mail: rvarosh@risi-usa.com

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