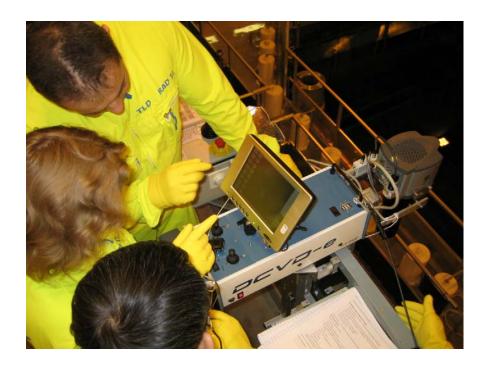
多多 Channel Systems

DCVD-e—Enhanced Digital Cerenkov Viewing Device

Spent Nuclear Fuel Measurement System

The DCVD-e is the newest generation Cerenkov device for non-intrusive inspection and verification of spent nuclear fuel in spent fuel ponds. It is a simple and highly effective instrument that offers real-time display and capture of digital measurements for analysis and comparison. The DCVD-e is sensitive and has high resolution making it capable of verifying spent fuel cooled for more than 40 years. This instrument can verify that a fuel assembly is intact and detect if fuel rods have been removed or substituted. Results are displayed in real-time to enable inspectors to verify spent fuel immediately, and can also be archived for future retrieval and analysis.



- Verification of facility declarations
- Spent fuel pond inventories
- Partial defect detection
- Measurement of freshly discharged to very long-cooled fuel



Product Information, Application and Tech Support at www.channelsystems.ca

多 Channel Systems

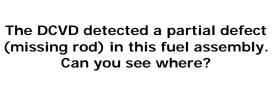
Features

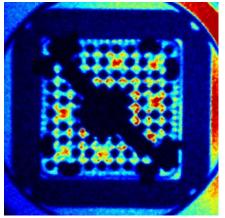
- Portable, mounts on most host bridge railings and fuelling machines (17.5 kg)
- Non-intrusive, works above the pond, no need to move fuel
- High resolution measurements
- Fatigue-free operation
- Colour-assisted display to enhance fuel features
- Compatible with ambient lighting
- Laser pointer to reference location in the pond
- 8" LCD display for easy, collaborative viewing
- Archives measurements to USB memory drive
- 80-200 mm zoom lens suitable for all fuel types and fuel ponds
- Battery or AC operation (3-4 hour runtime with Lithium Ion batteries, AC-110/220)

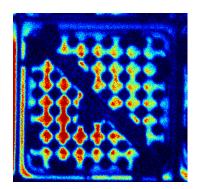
DEVD-9

Applications

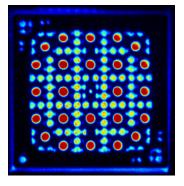
- Inspection of spent nuclear fuel
- Differentiation of irradiated items and non-irradiated items
- Verification of spent fuel with very low burn-up or very long cooling times
- Detection of fuel rod removal or substitutions







BWR Fuel



PWR Fuel