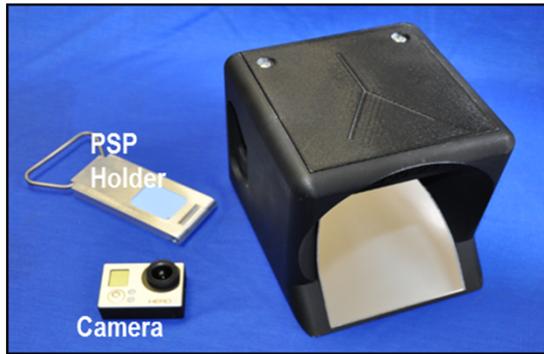
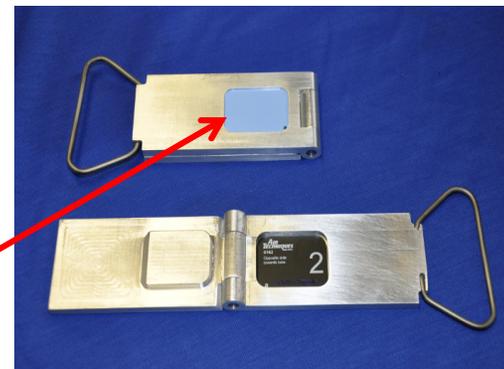


A non-destructive examination device to generate gamma radiation contour maps showing source locations and relative radiological contamination levels present.

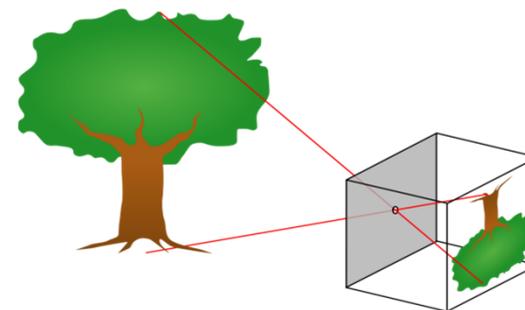
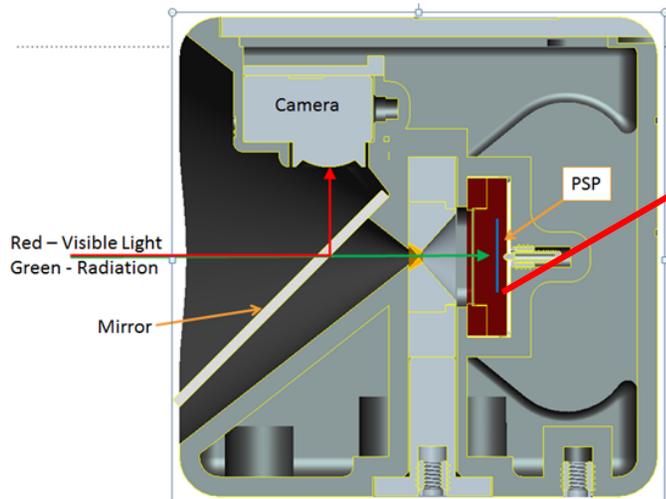


SRNL GrayQb™ Single Faced, Version 2 (SF2)

PSP plate (shown in holder below) is sensitive to radiation.



By placing pinhole in front of PSP, can determine directionality of source.



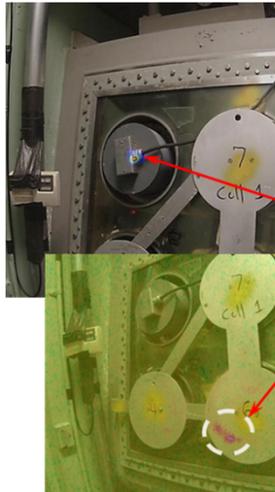
Passive mapping device consists of a custom tungsten shield, digital camera, and Phosphor Storage Plate (PSP).

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In Process Characterization Field Test



SRNL GrayQb™ Glovebox Field Test



SRS E-Area Low Level Waste Storage Area Field Test



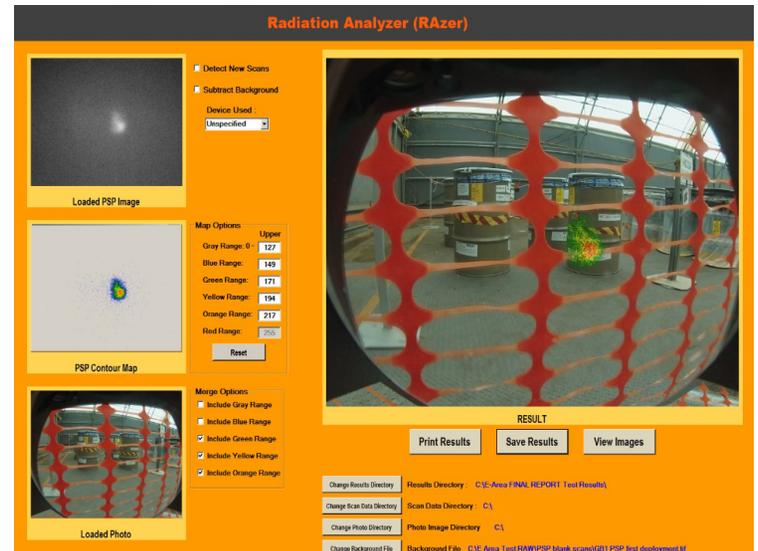
GrayQb™ results for locating hot spot in drum cluster



Phosphorus Storage Plates (PSP)



PSP Scanner



Radiation Analyzer (RAzer™) SRNL developed software program

Map the distribution of radiological contamination and locate contamination hot spots in the Plutonium Reclamation Facility (PRF) canyon, where pencil tanks were removed and decontamination/debris removal operations are on-going.

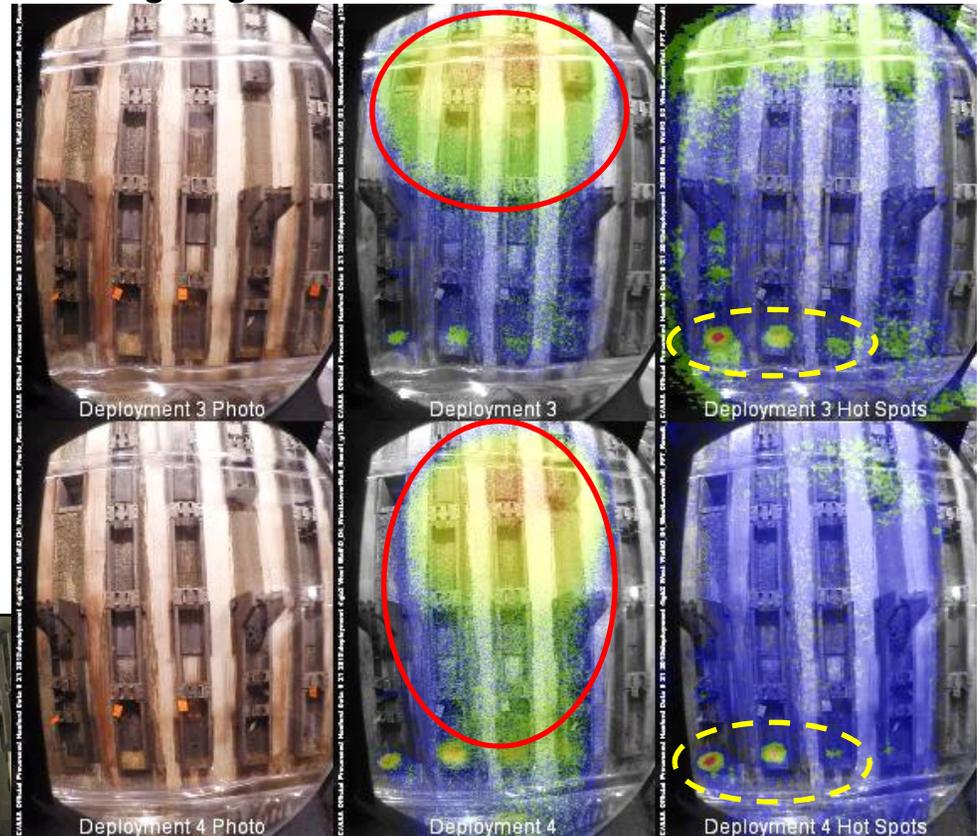


Pencil tank strong back supports – east wall

GrayQb™ Cluster mounted onto crane platform



GrayQb™ devices mounted on crane platform in the Hanford PRF Canyon



Uniform radiological contamination distribution

Hot spot locations

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