

## Solutions For a New Economy

PSI is enhancing the safety and security of the nation's ports of entry through an effort called the Radiation Portal Monitor Project (RPMP), deploying radiation detection systems at U.S. Customs and Border Protection (CBP) Ports of Entry.

Successful completion of a project of this scale requires close cooperation and teamwork from multiple organizations.

- \* U.S. Customs and Border Protection (CBP)
- \* U.S. Department of Homeland Security's (DHS)
- \* Pacific Northwest National Laboratory (PNNL)
- \* Local and regional governments;
- \* Port authorities;
- \* Labor unions; and
- \* Private industries such as seaport terminal operators, express courier services, carriers, and railroads.



## RADIATION PORTAL MONITORING PROJECT

The Radiation Portal Monitor Project (RPMP) is part of the U.S. Department of Homeland Security's (DHS) mission to keep U.S. ports safe and secure. PSI is rapidly becoming the nation's premier constructor of RPM systems at our Nations key ports, terminal exit gates along with mobile RPM systems construction, electrical, and control services

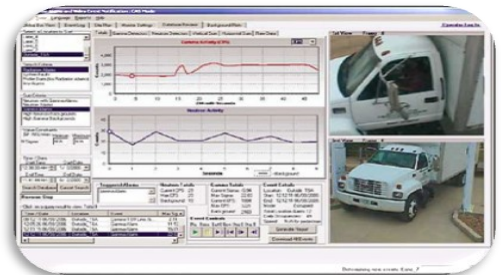
Fear of terrorist attacks with radiological weapons spurred RPM deployment for cargo scanning since 9/11, particularly in the United States. Automated fixed radiation portal monitors are considered to be the first measure to prevent the illicit trafficking of radioactive and nuclear materials and considered critical to National security by providing a "First Line of Defense" for early screening of cargo and containers at the nation's ports of entry.

PSI is the prime contractor responsible for; civil, mechanical, and electrical installation of the RPM systems including assembling the radiation portal monitors, support structure, radiation sensor panel, UPS system, stainless electronic enclosure, and IP Surveillance Systems. Additional work includes site evaluation and survey, equipment fabrication, video systems, light curtains secure networks and alarm signal, conduit, and wiring between components.

### Teamwork

Working hand-in-hand with U.S. Customs and Border Protection (CBPP) and Pacific Northwest National Laboratory (PNNL) — The PSI highly experienced deployment teams work closely at the port with local and regional governments; port authorities; labor unions; and private industries such as seaport terminal operators, express courier services, carriers, and railroads.

PSI's continuing success on these programs has been based on the ideal that the cooperation of local stakeholders is critical to the outcome of these projects, since timely completion of the work is important in the drive to secure the nation. Implementation of this enhanced security is conducted as efficiently as possible with minimal disruption to ongoing port operations.



### PSI's Installation Process and Deployment

Typically, PSI is involved with all aspects of the Installation Process and deployment of the RPM systems at many port sites. The PSI process involves multiple steps, including site surveys; meetings with stakeholders; development and review of deployment designs; negotiation of construction contracts; infrastructure construction; equipment installation, testing, and calibration; RPM system commissioning and postcommissioning support.

# RADIATION PORTAL MONITORING PROJECT



PSI has completed services to support PNNL at many other port facilities throughout the CONUS

- ⇒ Port of New York (APM Terminal)
- ⇒ Port of New York (PNCT Terminal)
- ⇒ Port of New York (Red Hook & Holland Terminals)
- ⇒ Port Everglades
- ⇒ Port of Miami
- ⇒ Port of Jacksonville (Dames Point)
- ⇒ Port of Fort Pierce (Florida)
- ⇒ Port of Delaware (Wilmington)
- ⇒ Port of Philadelphia (Penn Terminal)
- ⇒ Port of Philadelphia (Packer Terminal)
- ⇒ Port of Philadelphia (Tioga Terminal)
- ⇒ Port of Houston (Barbour's Cut)
- ⇒ Port of Houston (Empire Terminal)
- ⇒ Port of Houston (Manchester Terminal)
- ⇒ Port of Long Beach (Pier J & Pier T)
- ⇒ Port of Norfolk, VA (Main Terminal)
- ⇒ Port of Norfolk, VA (Newport News Terminal)
- ⇒ Port of Norfolk, VA (Portsmouth Terminal)
- ⇒ Port of Panama City
- ⇒ Port of North Carolina (Wilmington Terminal)
- ⇒ Port of Tacoma
- ⇒ Port of Oakland (TTI Gate)
- ⇒ Port of Seattle (Terminal 18)



## PSI RPM Project Sites

These systems provide early screening of cargo and containers at the Nation's ports of entry.

### Pier T Main and Rail Gate at Port of Long Beach, Long Beach, California

PSI provided construction, electrical, and control services at this Total Terminals International Seaport; installing Radiation Portal Monitoring (RPM) systems at the Pier T Main and Rail Gate at the Port of Long Beach, California.

The Work includes installation of radiation portal monitor (RPM) systems at the project locations noted above. The quantity of system components included three RPMs, one pre-manufactured booth, and associated equipment, including signs, bollards, traffic lights and gate arms. One new lane including primary and secondary in-line RPMs was constructed at the Rail Gate. One new secondary RPM was added at the Main Gate and a new booth was placed near the Main Gate secondary RPMs. Additionally, obsolete annunciators and traffic light controllers were replaced in the existing booths at the Main, Rail and Back Gates and a gate arm were added to an existing RPM at the rail gate.

### North Turning Basis (NTB) Redeployment on Cargo Bay Road at Port of Houston Authority (POHA) Houston, Texas

PSI provided construction, electrical, and control services at this Port Authority of Houston (POH) seaport; installing Radiation Portal Monitoring (RPM) systems at Cargo Bay Road in Houston, Texas.

The Work includes installation of four radiation portal monitor (RPM) systems, one pre-manufactured booth, and related equipment at the project location noted above. The RPMs are to be mounted on the existing concrete road surface.

### Installation at Red Hook Container Terminal, Port of New York & New Jersey (PANYNJ), Brooklyn, New York

PSI provided construction, electrical, and control services at this American Stevedores Seaport; installing Radiation Portal Monitoring (RPM) systems at Pier 9a and Pier 10 in Brooklyn, New York.

The Work included installation of radiation portal monitor (RPM) systems at two locations at the project location noted above. The quantity of system components includes two RPM systems configured in the typical 'seaport' stacked configuration (i.e. 4-panels per system), two pre-manufactured booths, and related equipment.

### RPM Installation at Berth 20-24 Cargo Terminal at Port of Oakland, California

PSI provided construction, electrical, and control services at this Ports of America Seaport; installing RPM systems at Cargo Terminal Exit Gates 20-24 at the Port of Oakland, California.

The Work includes installation of radiation portal monitor (RPM) systems at one location at the project location noted above. The quantity of system components includes three RPMs, One pre-manufactured booth, and related equipment. Also, disassemble, package, and move existing RPMs, booth, and miscellaneous equipment to the CBP storage yard.

Located in offices throughout California,

PSI provides Nationwide coverage and localized support to governmental and industrial clients

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