

The logo consists of three horizontal, rounded rectangular bars stacked vertically. The top bar is light blue, the middle bar is lime green, and the bottom bar is a darker teal. The text 'Port of Seattle' is overlaid on the left side of the logo.

# Port of Seattle

May 2011

# PORT OF SEATTLE HARBOR



Pier 90/91

Pier 86

Pier 66

Terminal 46

BNSF (SIG - North)

Terminal 30

BNSF (SIG - South)

Terminal 5 On-Dock Rail

Terminal 25

Terminal 5

Terminal 18

UPRR (ARGO)

# TECHNOLOGY, EQUIPMENT & PEOPLE



**Optical Character Recognition (OCR)**



**Rubber Tired Gantry Crane (RTG)**



**Radiation Portal Monitors (RPM's)**



**Radio Frequency Identification (RFID)**



**Vehicle & Cargo Inspection Station (VACIS)**

# TERMINAL GATE ENTRY & EXIT



# MARINE TERMINAL ENTRY



ENTRANCE TO  
ON -TERMINAL  
TRUCK QUEUING  
AREA



GATE PASS  
ISSUED

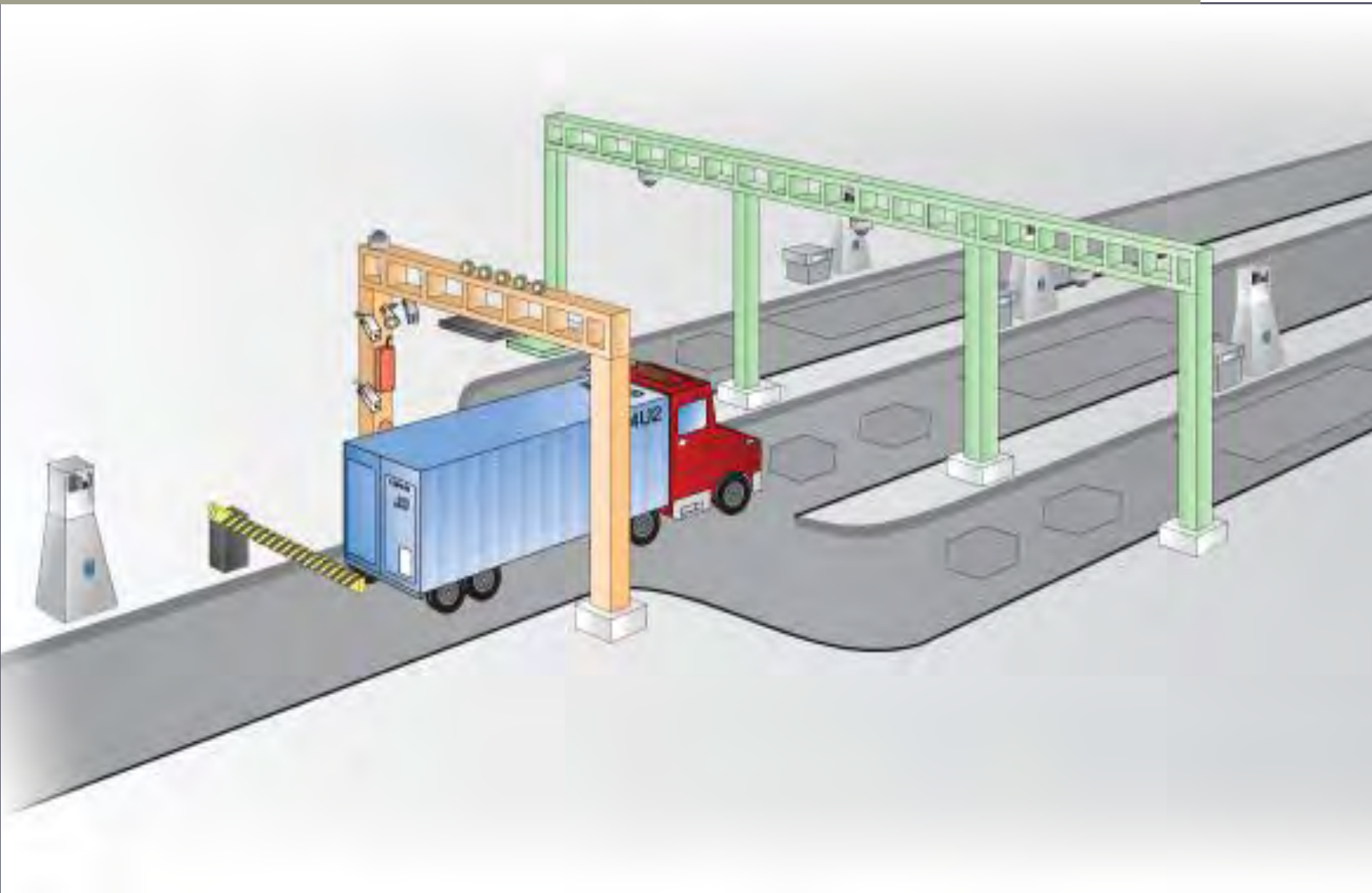
HANJIN GA  
580

DRIVER'S ID  
SCANNED

INSTRUCTION  
TICKET PRINTS

INSTRUCTION TICKET PRINTS

# OPTICAL CHARACTER RECOGNITION (OCR)



# “KITCHEN” VIEW OF REMOTE CAMERAS



# MARINE TERMINAL ENTRY

## STEAMSHIP COMPANY EQUIPMENT INTERCHANGE AND INSPECTION REPORT



Gate Pass Number

# 4203

REMARKS - REFER TO DAMAGE BY ITEM NUMBER, BOTH CONTAINER AND CHASSIS

STEAMSHIP COMPANY <b>BLUE CONTAINER LINE</b>		VESSEL		VOYAGE			
DELIVERING - RECEIVING CARRIER <b>EMERALD EXPRESS</b>		BOOKING/BILL OF LADING NUMBER		CARGO DESCRIPTION			
PORT OF DISCHARGE		FOR TRANSHIPMENT TO		MOVEMENT IN	HAZARDOUS	LABELS	
CONTAINER NUMBER TGHU787003 6		SEAL NUMBER	STATUS EMPTY	LENGTH 40'	HEIGHT 9'6"	TYPE Standard	
CHASSIS NUMBER FFFZ016393		CHASSIS LENGTH & TYPE 40' GOOSE NECK		BOOKED TEMP	BKD. VENT		OVERSIZE
TOTAL ROAD WEIGHT	TRACTOR WEIGHT	CHASSIS WEIGHT	CONTAINER GROSS		CONTAINER TARE		CARGO WEIGHT



# TERMINAL TECHNOLOGY

YARD TRUCK RFID TAG



OCR Cameras



CRANE RFID TAG & PTUI



Crane OCR



# RADIO FREQUENCY ID (RFID) FOR TRUCKS



RFID tag on Port Truck



RFID Port

Tag triggered by RFID Port



RFID Ports

Automated tag/transaction association

# RFID FOR CONTAINER HANDLING EQUIPT



RFID Port

RFID Tag

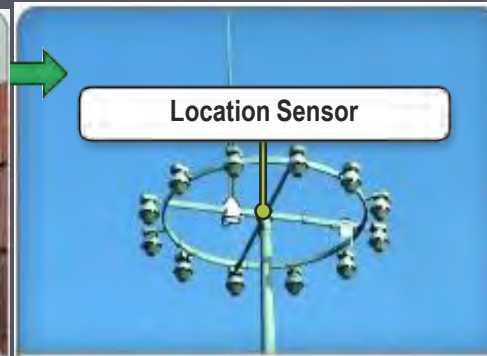
RFID tag on top-pick forces the truck or chassis tag to transmit its ID. ID is auto transferred back to the top-pick



RFID Tag

PTIU

Container and Top-pick are automatically associated based on PTIU sensor and location



Location Sensor

The location of the top-pick's tag is determined when container disengages.



Vendor Marine Terminal

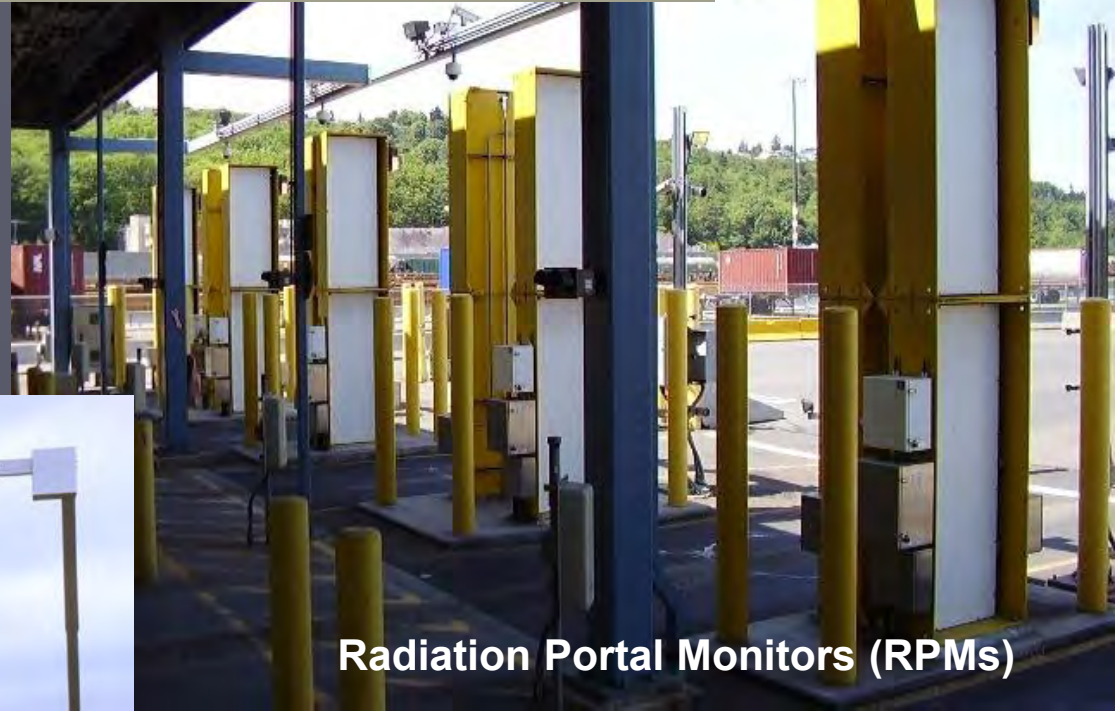
Terminal Operating System

The location information is translated to bay, cell, and tier and updated to the TOS.

# TERMINAL SECURITY

Transportation  
Workers Identification  
Credential (TWIC)

Vehicle & Cargo Inspection Station  
(VACIS)



Radiation Portal Monitors (RPMs)



# Transportation Worker Identification Credential

## Card Security Features



Sample prototype card shown, production card will differ in appearance



Memory chip carries individual's unique biometric for identity match at reader. If the secured data doesn't match the individual's fingerprint, or the facility has not opened access to the individual the card **cannot be used**.



Transportation  
Security  
Administration



# Port of Seattle

Where a Sustainable World is Headed