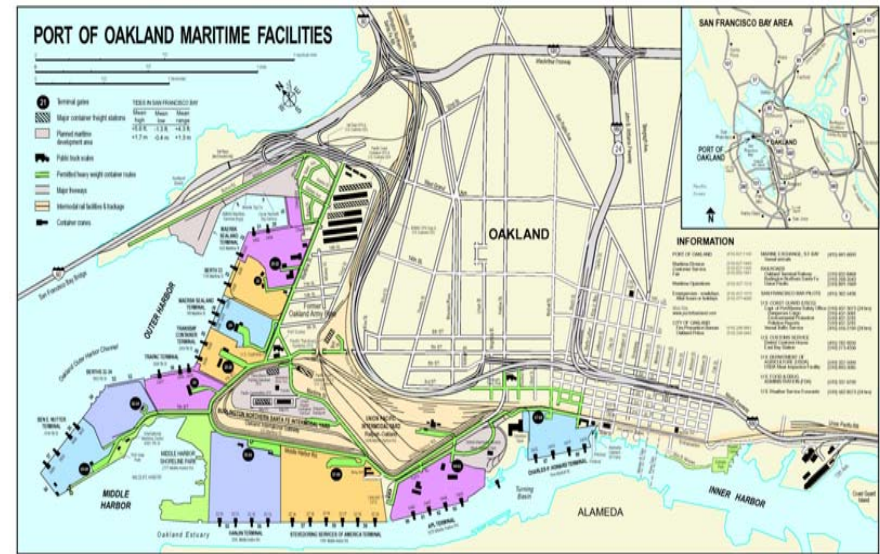


RADIATION PORTAL MONITORING (RPM) PROGRAM IMPLEMENTATION FOR US CUSTOMS AND BORDER PROTECTION (CBP), US DHS

ONE PORT'S PERSPECTIVE



RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Project Management Model Options

- *Port – Landlord as PM/Owner*
- *Terminal Operator as PM/Owner*
- *Management Firm as PM*



RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port – Landlord as PM/Owner benefits

- ✓ PNNL provides technical advice and coordination
- ✓ Port manages schedule, cost, quality, financial risk
- ✓ Standardized tenant/agency lease and construction documentation
- ✓ Streamlined engineering analysis process; we know facility, local codes
 - ✓ Issue one design/construction contract for all terminals
- ✓ Could act as liaison to utility companies and permitting authorities



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port – Landlord as PM/Owner Disadvantages

- ✓ Port assumes some financial risk
- ✓ Port manages interface with uninformed or disgruntled tenants and Longshore representatives
- ✓ Port in-house legal, finance, SRD and other support departments may have differing priorities than RPM program manager



- ✓ Port may have to assume role as referee between CBP's and tenants' competing operational goals

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port as PM/Owner Model: Process

- **Formed Partnership with CBP/Battelle**
- **Port created “Free Space Agreements” between CBP/tenants with provision for Port concurrence**
- **Utilized established Port/City Purchasing Ordinance for prosecution of work**
- **Utilized established “Bill To Others” invoicing process for reimbursement of all costs by CBP/Battelle**



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port as PM/Owner Model: Program Implementation

Concept Planning

Stakeholders' input - *CBP, Tenants, Port Maritime Division*

Design

Port/CBP agreed milestones for review by all *stakeholders*

Construction

Pre-construction meeting with all *stakeholders*

- Frequent updates to scheduling with all *stakeholders*
- CBP launched basic outreach program for *Longshore* by CBP on technology operation

Commissioning

- By RPM vendor w/ assistance from Port Contractor



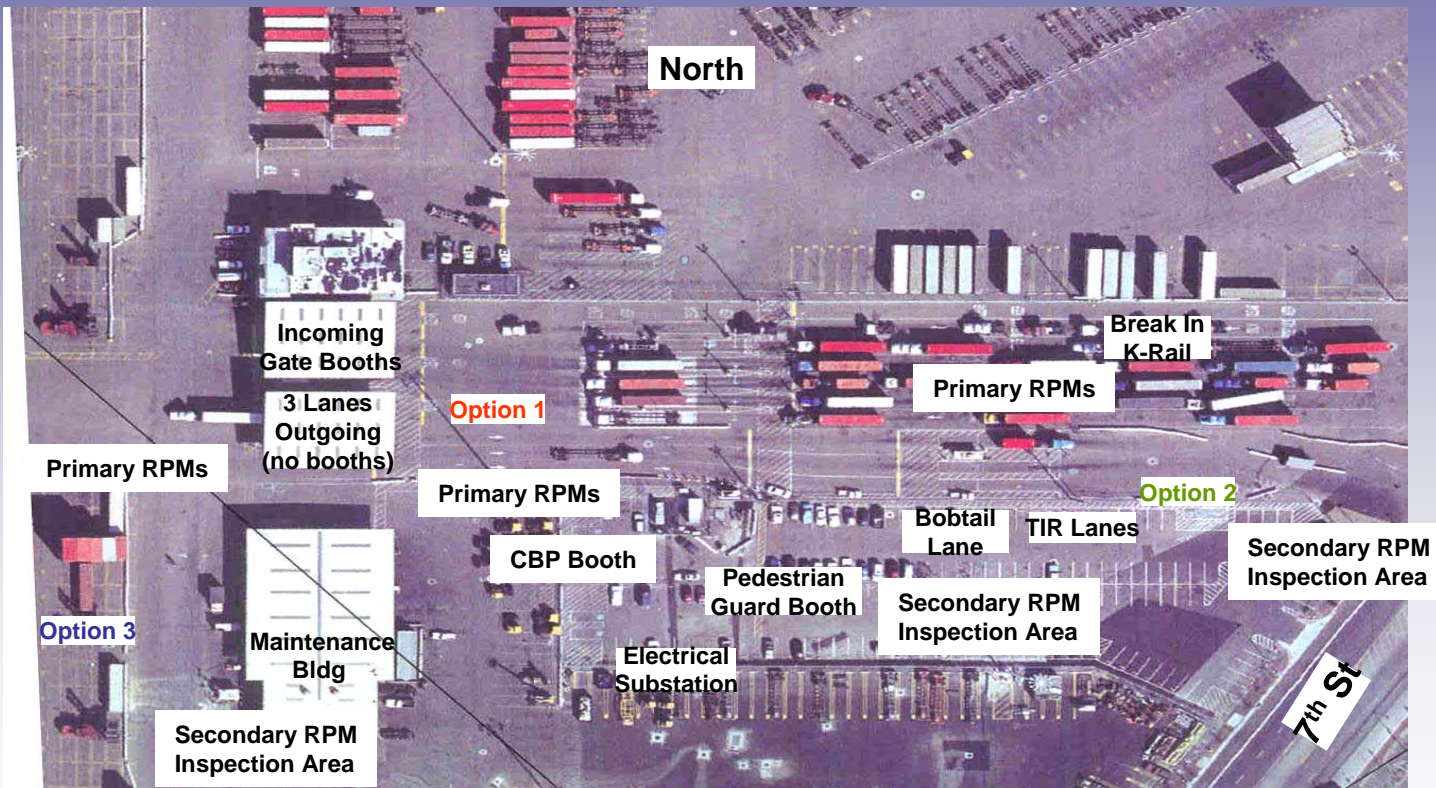
PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

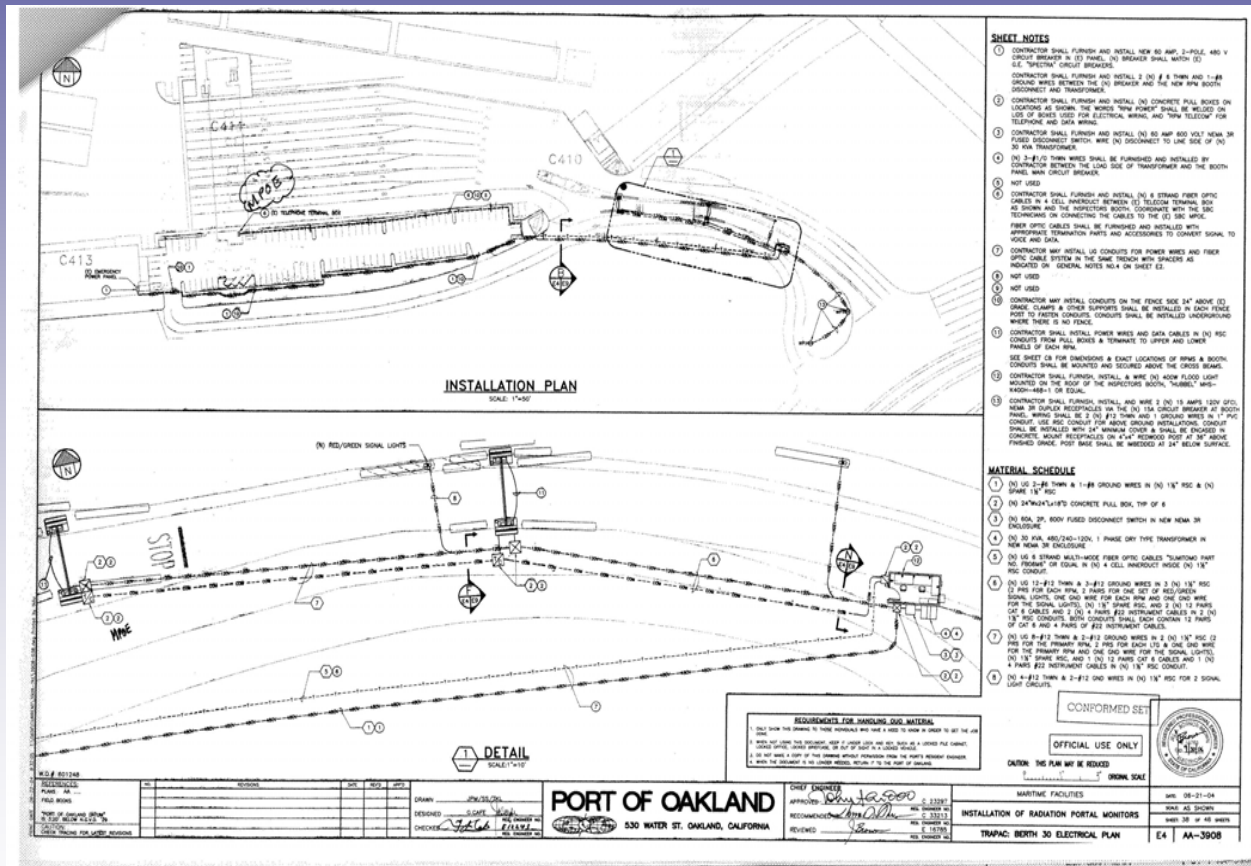
Port as PM/Owner Model: Program Implementation

Concept Planning



RPM PROGRAM IMPLEMENTATION A PORT PERSPECTIVE

Port as PM/Owner Model: Program Implementation Design



RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port as PM/Owner Model: Program Implementation

Construction

- Large deposit for plans & tracking process
- Contractor pre-qualifications and interviews
 - Pre-bid conference
- Pre-construction conference for each terminal



RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port as PM/Owner Model: Program Implementation

Document Control

- **Requirements for handling “Official Use Only” (OUO) Material – primarily electrical drawings**
 1. Only show this drawing to those who have a need to know in order to get the job done.
 2. When not using this document, keep it under lock and key, such as a locked file cabinet, locked office, locked brief case, or out of sight in a locked vehicle.
 3. Do not make a copy of this drawing without permission of the Port’s RE.
 4. When the document is no longer needed, return it to the Port.



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port as PM/Owner Model:

Working with CBP/Battelle, Relationship?

POO = “Contractor”

CBP/Battelle = “Client”



Port of Oakland
Engineering Division
staff as role of POO
“Program Manager”



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Port of Oakland Engineering Division staff as role of “Program Manager”

- **Design and Services-utilities design, coordinated hiring and managed Civil/Structural/control Design Team (HPA & TEECOM)**
 - **Engineering Construction – Port CE RE performed CM, E/M Field Engineer performed utility Inspection services**
 - **Environmental Planning Staff - environmental finding (CATEX)**
- **Legal Department - drafted agreements between CBP/Tenants, reviewed agreement between Port/Battelle**
- **SRD - participated in consultant and contractor selection processes**
 - **General Manager/Wharfingers coordinated meetings with terminal operators**



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Project Hurdles Revisited

- Free Space/Consent agreement non-existent
 - Unwilling terminal operators
 - Labors' misunderstanding of technology

TBCT BERTH 25 – CHECKPOINT GATE LOOKING NORTHWESTERLY AT (E) DOUBLE LEAF SWII



RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Project Hurdles Revisited

FAQ' distributed to terminal operator employees and Longshore



U.S. Customs and Border Protection

1300 Pennsylvania Avenue, N.W., Washington, D.C. 20229

January 2004

RADIATION PORTAL MONITOR SYSTEMS

What is a Radiation Portal Monitor?

A radiation portal monitor is a detection device that provides Customs and Border Protection (CBP) with a passive, non-intrusive means to screen trucks and other conveyances for the presence of nuclear and radiological materials. These systems are capable of detecting various types of radiation emanating from special nuclear materials, natural sources, and isotopes commonly used in medicine and industry.....



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE



Project Hurdles Revisited: Distributed direction to truckers

Change in Exit Processing Procedure

Prior to exiting the terminal, you will note large yellow stands called “portals” that have recently been erected. The portals are the property of and are operated by the U.S. Bureau of Customs and Border Protection. They are harmless, passive detection systems that sense the environment around them. The procedure for passing through the portals is as follows:

- Stop at the stop line and sign prior to the portal.
- When the lane is clear in front of you, drive through the portal at speeds no greater than 5 miles per hour....

Cambio al Proceso de Salida

Antes de salir de la terminal, usted observará una nueva estructura amarilla grande que forma un “portal.” Esta estructura ha sido instalada recientemente. Estos portales son operados y pertenecen a la Oficina de Aduanas y de Protección Fronteriza del gobierno de los EE.UU. Es un sistema inofensivo y pasivo que detecta senales especificas en el ambiente. El procedimiento para pasar através de estos portales es el siguiente:

- Párese en la línea al frente del semáforo antes del portal....



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Program Successes

- **Reimbursement of costs by CBP/Battelle were timely**
- **Plan and CO review and approval within scheduled period**
- **Key players for CBP/Battelle/PNNL were accessible and knowledgeable about program for all project phases**
 - **Design team and contractor familiar with POO**



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

PROGRAM HIGHLIGHTS

- ✓ Deployment of RPMs at 8 exit gates for 7 international marine terminals with max. TEUs avg. 700-1,100/day (exits)
 - ✓ Cost Approx. \$3.6 Million – design, construction
- ✓ Approx. \$8.0 Million incl. materials supplied by CBP/Battelle
- ✓ 14 mo. project and 3 mo. Construction durations per terminal

✓ **First major US container port to implement RPM Program**



PORT OF OAKLAND

RPM PROGRAM IMPLEMENTATION

A PORT PERSPECTIVE

Q & A



PORT OF OAKLAND