







PORT OF OAKLAND

Who Are We?

Established in 1927 as an independent agency for the City of Oakland

Financially self-supporting

Early Pioneer in Containerization

Northern California's prominent container port

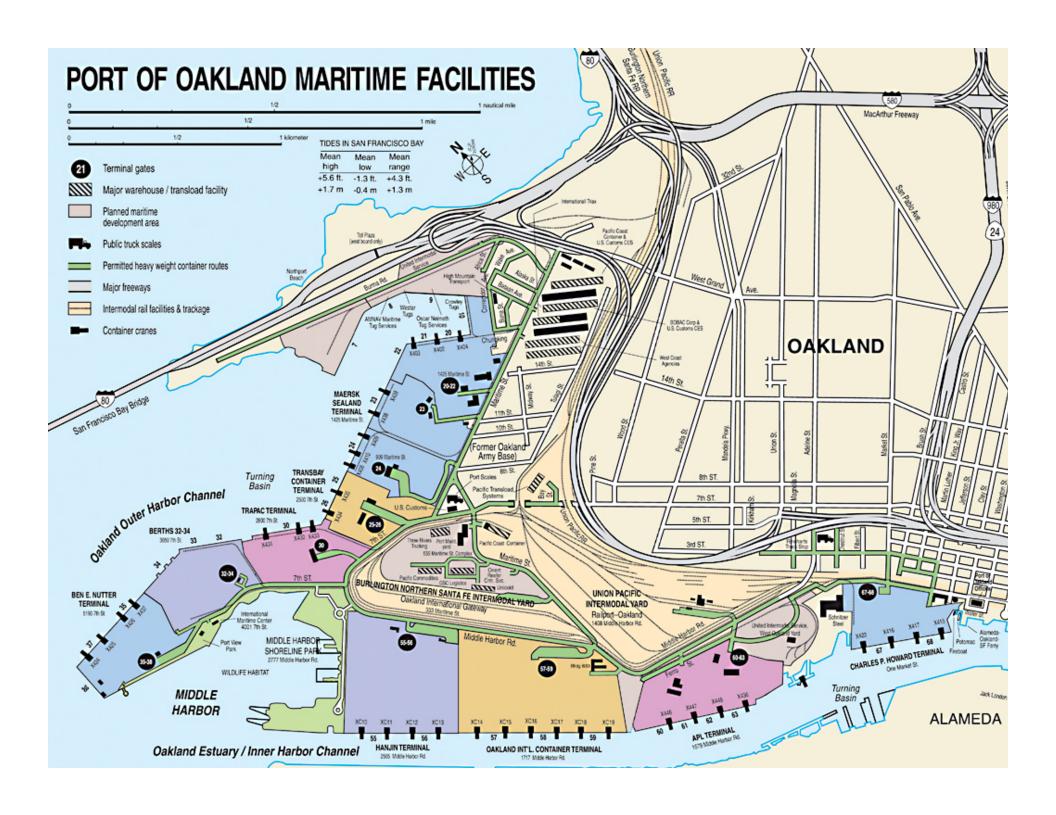
Landlord Port as Opposed to Operating Port



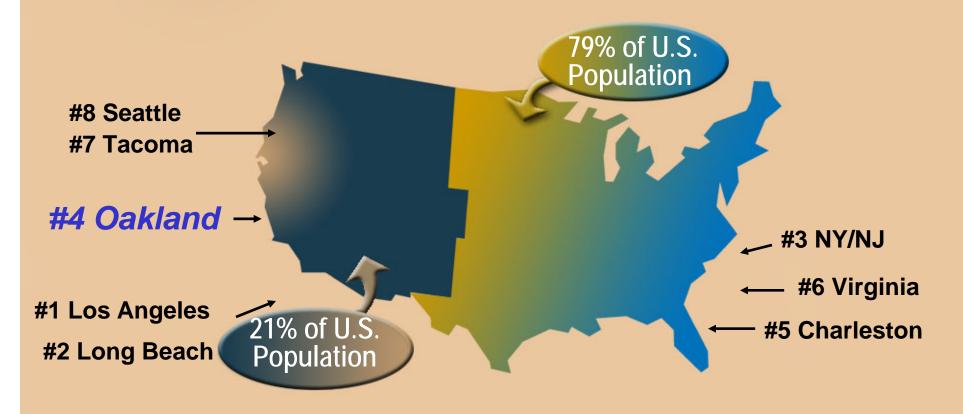
MARITIME DIVISION UPDATE

- 4th Largest Container port in U.S. serving 4th largest metropolitan area in U.S. and the 2nd largest Exporting Region in the Nation
- 2.04 Million Total TEU's in 2004:
 54.4% Export 45.6% Import
- Over \$800 Million spent on Capital projects since 1995; \$ 1 Billion [today's dollars] needed to help us meet growth in demand over the next 15 years





2004 U.S. Port Rankings

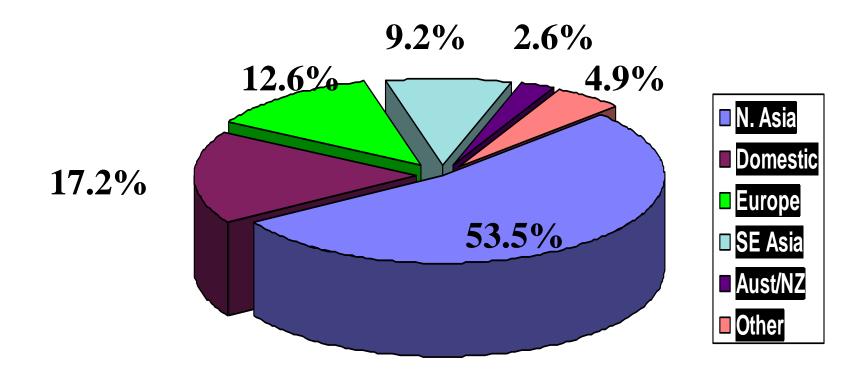


Source: Journal of Commerce PIERS data



OAKLAND'S TRADING PARTNERS

Calendar Year 2004





TOP COMMODITIES...







CALIFORNIA'S GLOBAL POSITION

California is the World's 5th Largest Economy:

- Single largest trading entity in the U. S.
- International waterborne commerce through California Ports accounts for approximately 42% of the Nation's total.
- Three of the Nation's four largest container ports are located in California.
- The value of trade through the California Customs Districts is estimated at nearly \$500 billion [preliminary] in 2004.
- 81.6 % of Containerized cargo handled on the U.S. West Coast moved
 - through California Ports in 2004.
- Volume through California Ports has increased 5 times faster than corresponding growth in infrastructure



STATE ECONOMIC BENEFITS OF CALIFORNIA PORTS [2000]*

Impact on:

State Revenue \$1.48 Billion

Gross State Product \$26.9 Billion

Personal Income \$32.5 Billion

Total Employment 838,000 Jobs

* Source: CManc, 2001



OAKLAND'S REGIONAL ECONOMIC IMPACTS [2001]

	Maritime	Total Port
Total Economic Impact [millions]	\$1,566	\$ 6,814
Includes: Payroll	\$ 753	\$ 1,918
State and Local Taxes	\$ 74	\$ 238
Direct and Other Jobs [By Type]		
Direct	7,900	22,600
Induced	3,800	11,600
Indirect	2,100	6,300
Related Jobs	240,300	486,800



PORTS ISSUES TODAY

OPERATIONAL

Surface Infrastructure/Goods Movement

Dredging

Urban Congestion & Air Quality

PORT SECURITY

Asset and Cargo Protection

Cost Impact of Regulatory Requirements

Today we will focus our presentation on Security



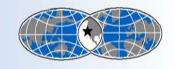
TRANSPORTATION VULNERABILITY

- Transportation Services are a Critical Part of the Global, Low-Inventory [i.e. Just-in-Time]
 Distribution Model Prevalent in the U.S. and Globally.
- The Transportation System is Designed to SPEED commerce, not IMPEDE commerce!









THE U.S. MARITIME SYSTEM...



...Includes more than 300 sea and river ports with more than 3,700 cargo, passenger terminals and numerous recreational marinas, vessel arrivals per day and more than 1,000 harbor channels spread along thousands of miles of Coastline.

- Containers are an important segment of Maritime Commerce.
- The Top 50 Ports in the U.S. account for approximately 90% of cargo tonnage and the Top 25 Ports account for nearly 98% of all container shipments. In 2004, nearly 8 Million Containers entered the U.S.
- Trade now accounts for 25% of the U.S. Gross Domestic Product [GDP], up from 11% in 1970 and is expected to double over the next 2 decades.



TODAY'S "TROJAN HORSE"



Ships with 8,000 TEU Capacity are now in service Ships with 12,000 TEU Capacity are expected by 2011



PORT SECURITY

To Date, Mandated Security Programs have cost the Port of Oakland and its major tenants in excess of \$18 million. Estimates of future costs on a regional basis are as high as \$160 million. The Port of Oakland costs alone could be in the \$60-80 million range with an additional \$125 million in aviation and maritime security costs over the next 5-7 years.

- A significant component of capital spending over the next 5
 years will be devoted to support security enhancements
 mandated by Congress and directed by regional security
 requirements.
- A TSA Grant Funding Program is in place, BUT NO REGULAR FUNDING SOURCE HAS BEEN COMMITTED



PORT SECURITY RISK FACTORS

Ports are Vulnerable to Terrorist Use...

- Extensive in size with multiple landside points of entry.
- Accessible by water and land.
- Close proximity to metropolitan areas.
- Large volume of cargo, passengers and HAZMAT.
- Hub of activity for multiple modes of transportation.
- Just-in-Time delivery system.
- Large numbers of trucks moving in and out
- Harbor for fishing and recreational boats.





PORT SECURITY RISK FACTORS...

- Currently no known <u>credible</u> threats
- Possible scenarios include:
- Ports as gateways for dangerous materials and WMD to enter the country via container
- Ports as a point of entry for terrorists entering the U.S. illegally
- Attack via small boat, missile launch or other means against cruise ships, ferries, waterside facilities or port infrastructure
- Suicide attacks on foot or using bicycles, motorcycles, car or truck bombs
- Close range shooting attacks at Port entrances, at loading and unloading points, from public transport and vessels, from land or from sea.
- An explosive device or device containing HAZMAT or RDD laid/planted in the Port grounds, quays, terminals, storage areas, vehicles, etc.
- Sinking of a vessel in the Port or its approach lanes and blocking a pier, channel or all traffic to/from a Port
- Seizure of a vessel for use as a weapon against another vessel or a target on shore
- Obstructing operations through controlling/influencing riots or demonstrations to cause economic damage.









POTENTIAL TARGETS - SHIPS



Cruise ships



Ro-Ro / passenger ferries



Container ships



Bulk Tankers



Private Vessels



POTENTIAL TARGETS - PORTS



Storage areas



Pipe lines



Loading facilities



Discharge facilities



Container Terminals



PORT SECURITY IS A PARTNERSHIP





US Coast Guard

Waterside and Facility Security

US Customs and Border Protection

Cargo Security

The Port and it's Tenants

•Facility Security [tenants]

•Infrastructure [the Port]

The Local Responder

•Front line Prevention Mitigation and Response



FEDERAL SECURITY ACTIVITIES



PORT OF OAKLAND



THE MARINE TRANSPORTATION SECURITY ACT OF MANDATED MAJOR CHANGES TO THE NATION'S APPROACH TO PORT AND MARITIME SECURITY





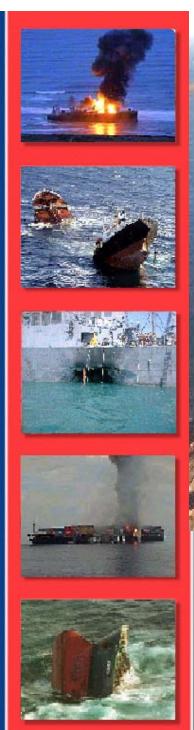
PLANNING REQUIREMENTS

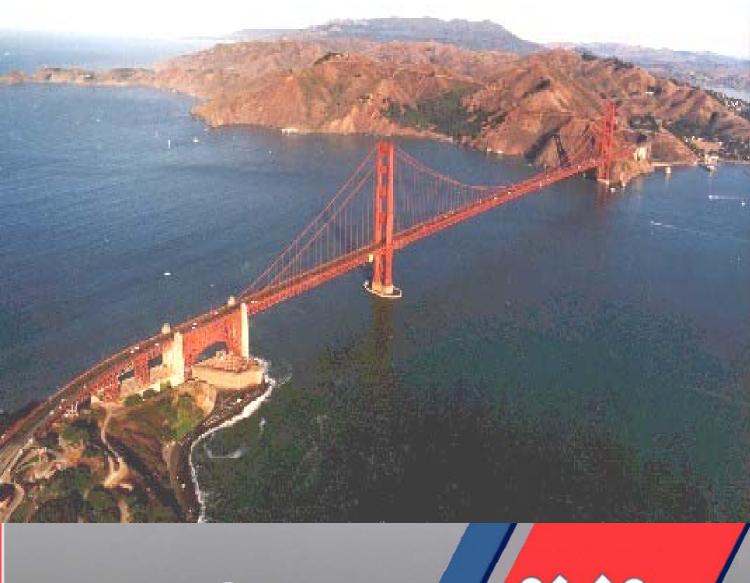
- Risk & Threat Analysis
- Security Plans for Vessels Facilities,
 Port Areas and the Nation
- Incident Response Plans
- Exercises to Test Plans
- Assess Foreign Port Risks
- Establish Area Security Committees to assure communication exchange

IDENTIFICATION OF PERSONNEL

- Security Cards and controlled access
- TRACKING OF VESSELS IN AND AROUND THE PORT
 - Automatic ID Systems on vessels
 - Land-based facilities to track, send and receive information







U.S. COAST





US COAST GUARD ROLES

- Nation's Principal Maritime Law/Treaty Enforcement Authority
- Lead Agency for the Maritime Component of Homeland Security, Including Port Security
- Other Maritime Safety Responsibilities Include:

Search and Rescue, Marine Safety Ice Patrol/Ice Breaking Recreational boating, Drug and Alien Interdiction, Pollution, Prevention Response and Enforcement









TO COUNTER THE THREAT THE COAST GUARD:







- Implemented Security Zones around waterside facilities/transportation infrastructure [airports, bridges, etc.
- Established Security teams to inspect certain high interest vessels and escort certain ships transiting the harbor
- Implemented new reporting requirements for ships entering/leaving U.S. harbors. Notice of Arrivals provided 96 hours. Detailed information on crew, passengers, cargo and the vessel
- Implemented concept of Maritime Domain Awareness, fusing intelligence information with information from public, private, commercial and international sources to provide a more complete picture of maritime security threats



TO COUNTER THE THREAT THE COAST GUARD:







- Implemented requirements of Maritime
 Transportation Security Act by developing,
 publishing and implementing security
 regulations contained in 33 CFR, Parts 101-106,
 including:
 - Regional Seaport Security Committees
 - Vessel and Facility Security Plans
 - AIS Transponders on Vessels
- Worked with the International Maritime
 Organization to implement the first Global
 Security Standard for vessels, ports and
 facilities
- Implemented Port State Control and International Port Security Program to assure compliance of vessels and foreign ports with international security regulations





Homeland Security

U.S. CUSTOMS & BORDER PROTECTION [CBP]

CBP IS RESPONSIBLE FOR PREVENTING TERRORISTS AND WMD FROM ENTERING THE U.S. WHILE FACILITATING THE MOVEMENT OF INTERNATIONAL COMMERCE





ADDITIONAL ROLES

- Drug Interdiction
- Food & Drug Exams with FDA
- Protection from Counterfeit Merchandise entering the US
- Protection from Unfair/Illegal Trade
- Stolen Vehicle Interdiction
- Prevention of Illegal Aliens from entering
- Collection of Customs Duties and Fees

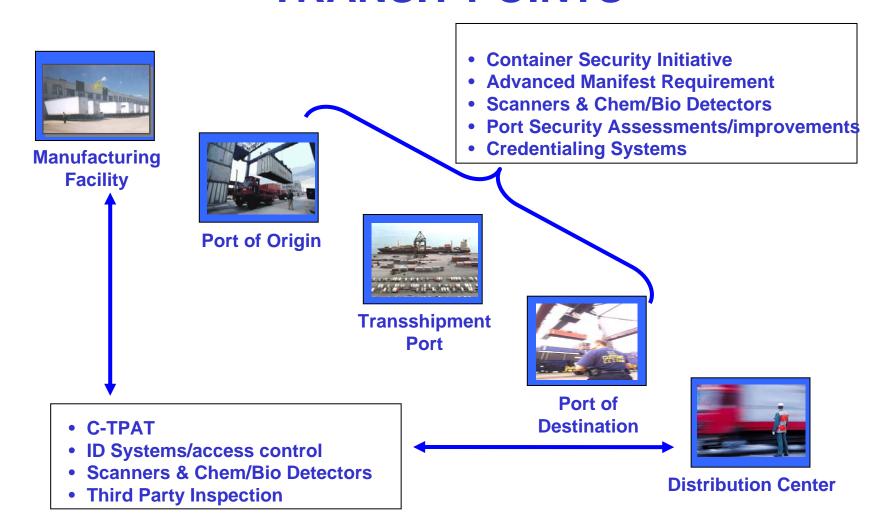


CUSTOMS HAS LAYERED APPROACH TO SECURE CARGO

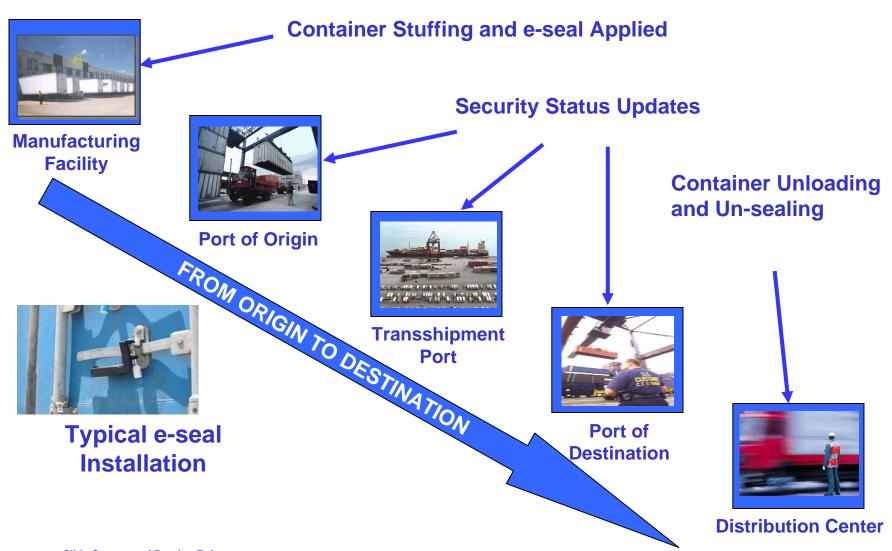
- Automated Targeting System to randomly select containers to be examined
- Container screening and inspection utilizing both non-intrusive inspection systems and physical examinations
- 24 Hour Rule requiring shipment documentation being transmitted to customs 24 hours before the cargo is loaded at a foreign port.
- Requiring more comprehensive and specific cargo shipment to more efficiently evaluate independent container shipments for risk of terrorism
- Customs Security Initiative at Key overseas ports which place US customs personnel at key international ports to assist in screening cargo before it is loaded to US bound vessels
- Customs-Trade Partners Against Terrorism [CTPAT] voluntary Industry/federal cargo security initiative
- Free and Secure Trade [FAST] Program along borders
- Pilot Programs such as Operation Safe Commerce



SUPPLY CHAIN SECURITY – SECURE THE TRANSIT POINTS



SUPPLY CHAIN SECURITY – IN-TRANSIT VISIBILITY



NON-INTRUSIVE INSPECTION TECHNOLOGY

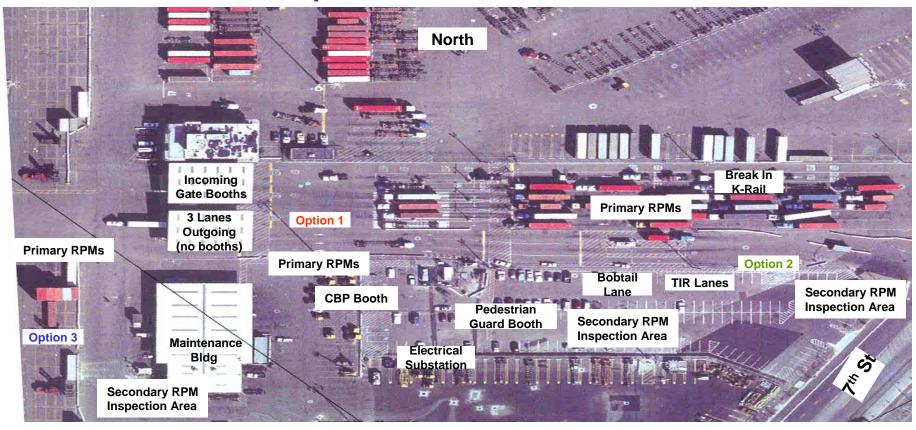
- Large-scale X-ray and Gamma-ray Imaging Devices
- Portal Radiation Monitors
- Portable and Handheld Personal devices to detect radiation, WMD, explosives, chemicals and contraband
- Mobile x-ray vans and Specialized Tool Trucks





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

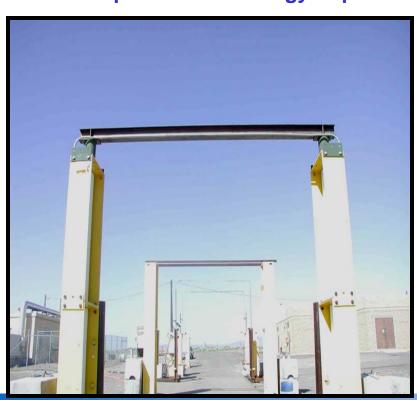
First major container port to implement RPM Program at multiple facilities, Port-wide





RADIATION PORTAL MONITORS [RPMs]

- All containers, loaded or empty, are required to pass through the Portal System as they exit the marine terminal.
- Trucks enter one portal set, if alarm then move through 2nd portal set; if alarm then checked by the Customs Officer on duty at the terminal gate who uses handheld devices to verify content.
- Computers to allow CPB to check documentation and/or contact Department of Energy if questions or to resolve issues.





PORT OF OAKLAND



SMART CONTAINER TECHNOLOGIES

Customs Initiatives to Explore...

- Tamper Detection –
 Motion, door opening, light change, internal air
 changes, changes in container structure or
 arrangement of cargo, specialty sensors [CBRNE]
- Condition Monitoring –
 Temperature, humidity, vibration, container empty/ full status
- Content Monitoring –
 RFID [tags on shipping cartons/pallets]



TRACE EXPLOSIVE DETECTION PROJECTS

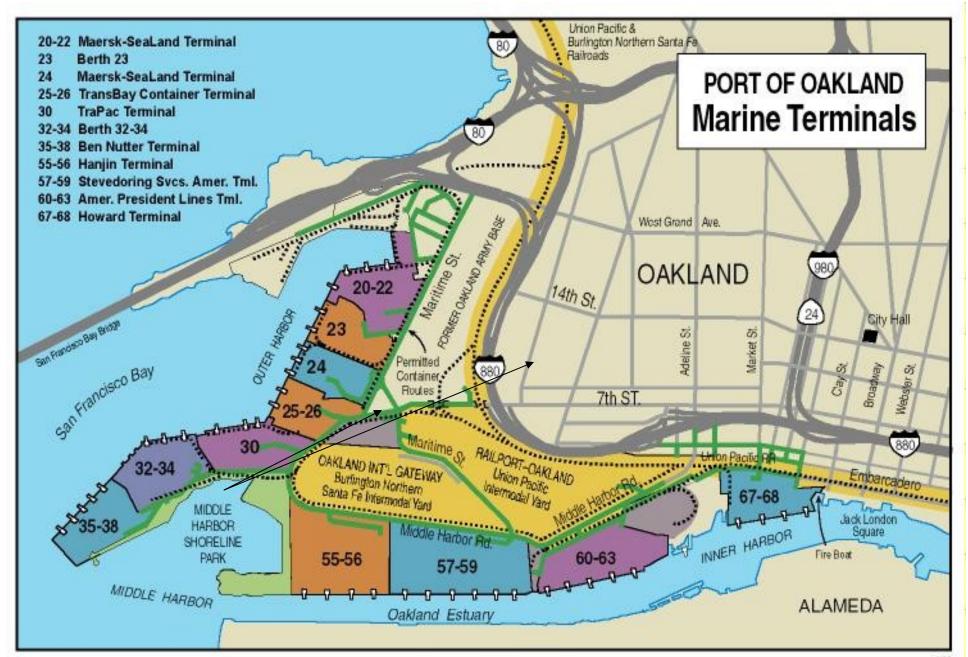
- •TSA Trace Portal Pilot Programs Implemented
 - •Deployed at Passenger Airports [NYC, Providence RI, Rochester NY, San Diego CA, Tampa FL, Gulfport-Biloxi]
 - •Deployed at air cargo-handling facilities [Atlanta, Dallas with Anchorage, LAX and Chicago planned.
- •TSA Detection Pilot Programs to Begin or Planned
 - •Secure Automobile Inspection Lances [SAIL]. Explosives screening of autos boarding Cape May-Lewes Ferry, using Z Backscatter Technology.
 - •Evaluating Systems to screen rail and airline passengers using walk through trace portal machines & document scanners
 - •Testing Systems for screening cargo transported by land, rail & air.



PORT OF OAKLAND SECURITY ACTIVITIES









FEDERAL FUNDING PROGRAMS

- 1st Round of TSA Grant Requests: \$28 million requested and \$4.8 million received. 3 Projects have been completed.
- 2nd Round of TSA Grant Requests: \$68.7 million in requests and \$1.6 million awarded for one project, underway.
- <u>3rd Round of TSA Grant Requests</u>: \$57 million requested and received \$315,000 funding for two projects received, one completed and one scheduled to start.
- 4th Round of TSA Grant Requests: \$18 million requested and \$1.97 million funding awarded for two projects.
- <u>5th Round of TSA/ODP Grant Requests</u>: Applications submitted 10 June 2005; \$5.9 Million requested; Awards announced 30 September 2005



PORT SECURITY PROJECTS COMPLETED OR UNDERWAY

- Perimeter Video Surveillance and Intrusion Detection System for Port's Marine Terminal facilities [\$2.217 Million]
- Automated Pedestrian Access Control System for Port's Marine Terminal facilities [\$2.5 Million]
- Emergency Communications System for Response and Incident Control [\$150,000]
- Mobile Traffic Barrier System for Port Access Roads [\$1.6 Million]
- Perimeter Video Surveillance System for Port of Oakland Ferry Dock [\$65,000]
 Perimeter Video Surveillance System for Port of Oakland Joint Intermodal Rail Facility [\$250,000]
- Area Surveillance System of Port Intermodal Access points [\$675,000]
- Hardening of Port's major substation and 115KV power distribution lines [\$525,000]



PORT FUNDING CONCERNS

- Coast Guard Estimates \$1.5 Billion in costs for the first year and \$7.3 Billion over the succeeding decade to implement MTSA
- Federally mandated security performance standards are beyond the scope of California's Ports to shoulder alone.
- The debate is over whether port security should be paid for with federal revenues, by state and local governments, by the maritime industry, or by a cost sharing arrangement along all of the above



PORT FUNDING CONCERNS

- Although federal grant funds for Port Security have been awarded to fund one-time capital projects [\$650 Million through FY 2005], there is an additional need and cost to upgrade/replace and maintain the systems as they age.
- Consequently, we may see in the future security systems not being maintained appropriately or staffed properly to ensure maximum protection.
- The most important security activity that needs to take place -- a single national id system -- is still not in place 3 years after 9-11, 2 years after MTSA.



The IED/RDD Challenge for Ports and Ships











IED/RDD OBJECTIVES

IED focus more on casualties

 RDD focus more on disruption, panic, damage to the economy.



- Establish vehicle inspection points at safe distances from the facility
- Use pre-positioned surveillance cameras to assist in inspection
- Visually inspect all vehicles including interiors, all major compartments of vehicles such as trunks, spare tire, cabinets, truck beds, etc.



- Check all unattended or suspicious vehicles parked in close proximity to the target facility
- Consider verifying the material being delivered
- Be alert for wires running to/from large containers or any unusual smells
- Restrict private automobiles from entering the target facility



- Arrange for law enforcement vehicles to be parked near entrances and exits or encourage frequent patrols.
- Recognize that possession of some combination of official ID's, uniforms, government license plates and vehicles tend to reduce suspicion. Check multiple forms of valid ID and verify business purpose.



- Develop Plan and interface procedures with local responder [Port/City Police and OES personnel].
- Ensure adequate alert systems are in place.
- Implement Awareness Training and conduct periodic exercises to ensure personnel adequately prepared.



PORT RECOMMENDATIONS

- The State should urge the Federal Government to:
 - Increase federal funding for security grants and provide a guaranteed source for funding for such grants.
 - Coordinate all grant applications within the Port's jurisdiction through the Port Authority to avoid duplication of projects and wasted funds.
 - Ensure federal funding of multi-year security projects, rather than one-time, short-term projects.



PORT RECOMMENDATIONS

The State should allocate a portion of the State Homeland Security Grant Program Block Funding to a Specific State Port Security Grant Program to finance ongoing security initiatives or unfunded federal mandates, help pay for newly created security positions, contract guards and security training.



PORT RECOMMENDATIONS

- The State should implement the following Security Initiatives:
 - Pro-active/Participation/Fostering of the Federal TWIC program – considered critical to ensure safety at our Seaports.
 - Implement a Pre-Incident Information Sharing System to prevent and deter potential or criminal acts by proactive joint information sharing among California Ports.
 - Implement a Critical Incident and Information Management System that would allow each Port in the State to know the security status of every other State Port.



THANK YOU



Questions?