

# PORT *MODERNIZATION* at a GLANCE



## **Port Modernization Program – An Inside Look** **AAPA Emergency Preparation, Response & Recovery Seminar**

Congressman Solomon P. Ortiz International Center

Corpus Christi, Texas

November 13 -14, 2019



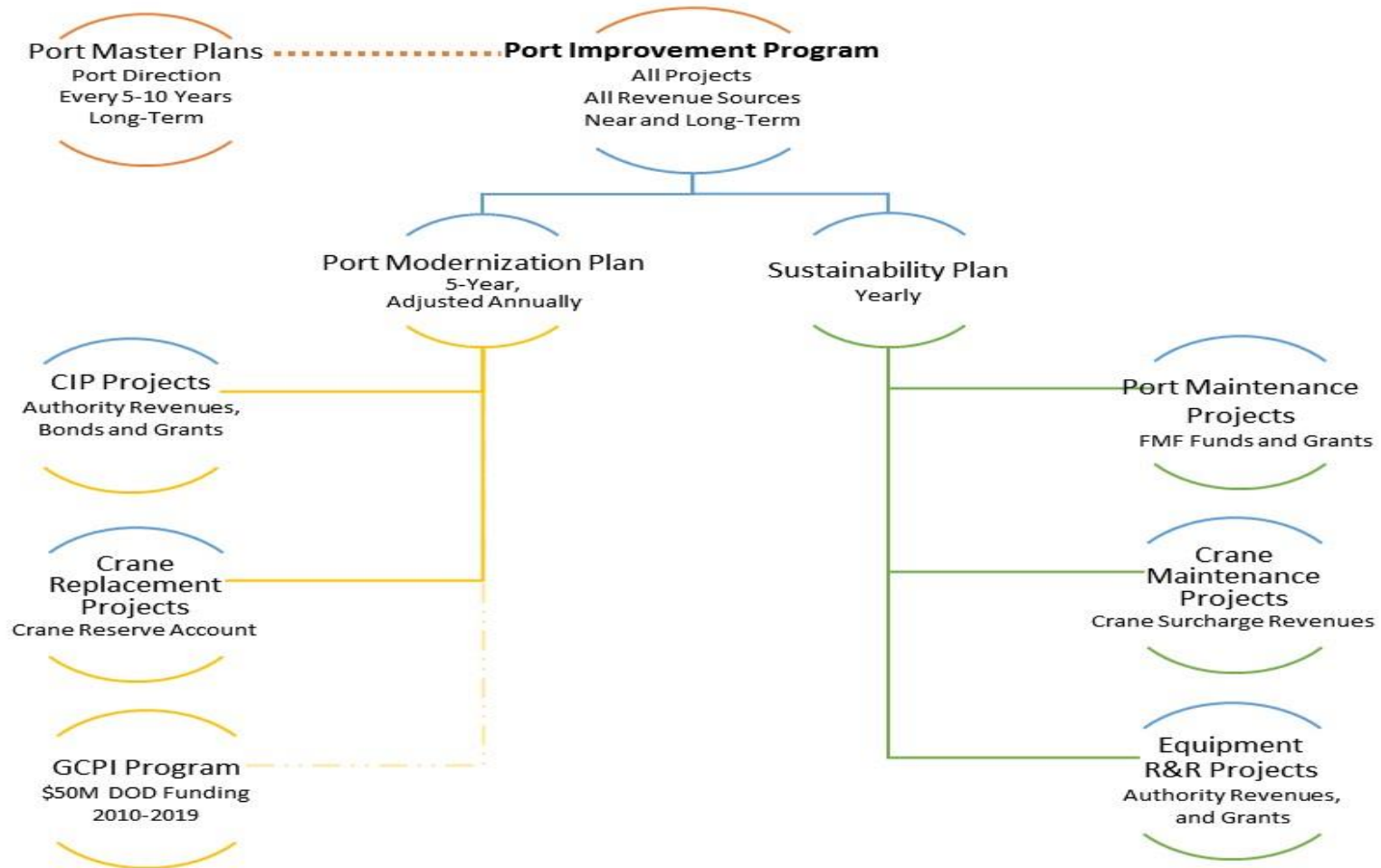
# Leveraging Federal Funding Opportunities

## Overview

- Funded by a grant from the Office of Economic Adjustment (OEA), the Port Authority of Guam (PAG) commissioned Parsons Brinckerhoff to update its 1999 Master Plan of the Jose D. Leon Guerrero Commercial Port in 2007;
- Conducted against the backdrop of a highly publicized, rapid and large military build-up, the Master Plan's Port Improvement Program (PIP) was later updated in 2013 to reflect DoD's reset plans to reduce the number of Marines to be transferred to Guam;
- The 2013 Master Plan Update summarized the evolution of change in the PIP and provided a "roadmap" to guide the PAG's modernization and future development strategy over the next 20 years; and
- This presentation provides an Inside Look at specific milestone initiatives that have enhanced the Port's core capabilities, operational sustainability, maritime and port security posture, and resiliency.



# 2013 Port Master Plan Update



# Federal Funding Resources

- US Department of Defense
- US Office of Economic Adjustment
- US Department of Homeland Security/FEMA
- US Department of Transportation
- US Department of Interior
- US Department of Agriculture
- US Fish and Wildlife Services
- US Office of Public Safety



# Completed Projects (2007 – 2018)

- DoD / MARAD Guam Commercial Port Improvement (GCPI) Program  
\$ 50 Million
- DHS / FEMA Port Security Grant Program  
\$ 12.3 Million
- DOI OIA / FWS / FWA /PAG Funded Program  
\$ 9.1 Million
- USDA / PAG Equipment Acquisition Program  
\$ 16.9 Million

# Port Modernization Program

## GCPI Program – Phase I & II



# Port Modernization Program

## GCPI Program – Phase III



# Port Modernization Program

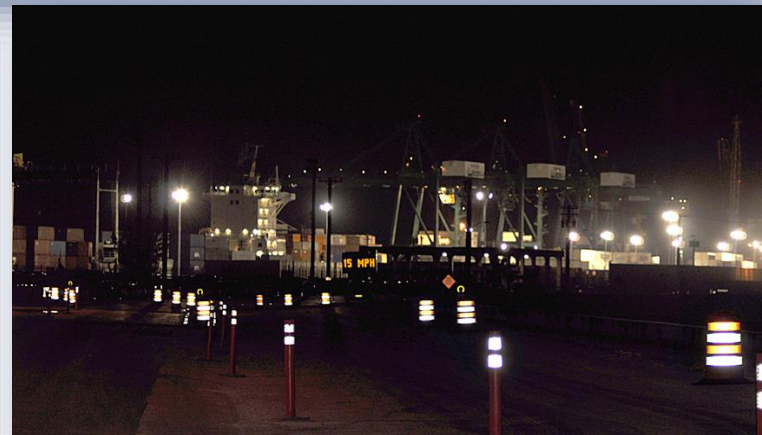
## GCPI Program – Phase III





# Port Modernization Program

## FEMA Port Security Grant Program



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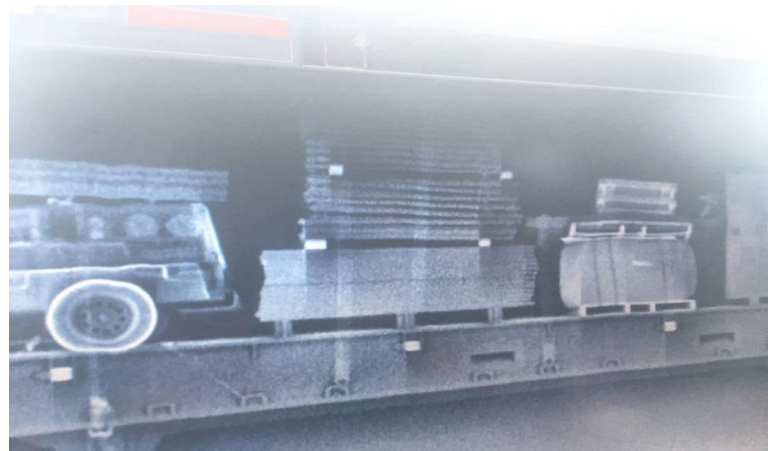
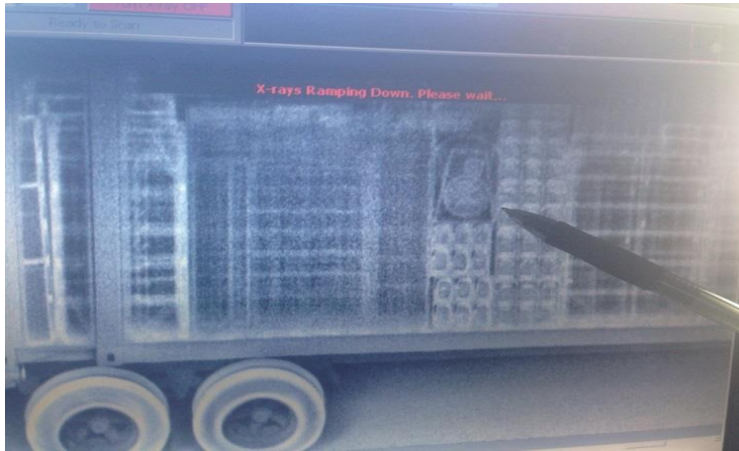
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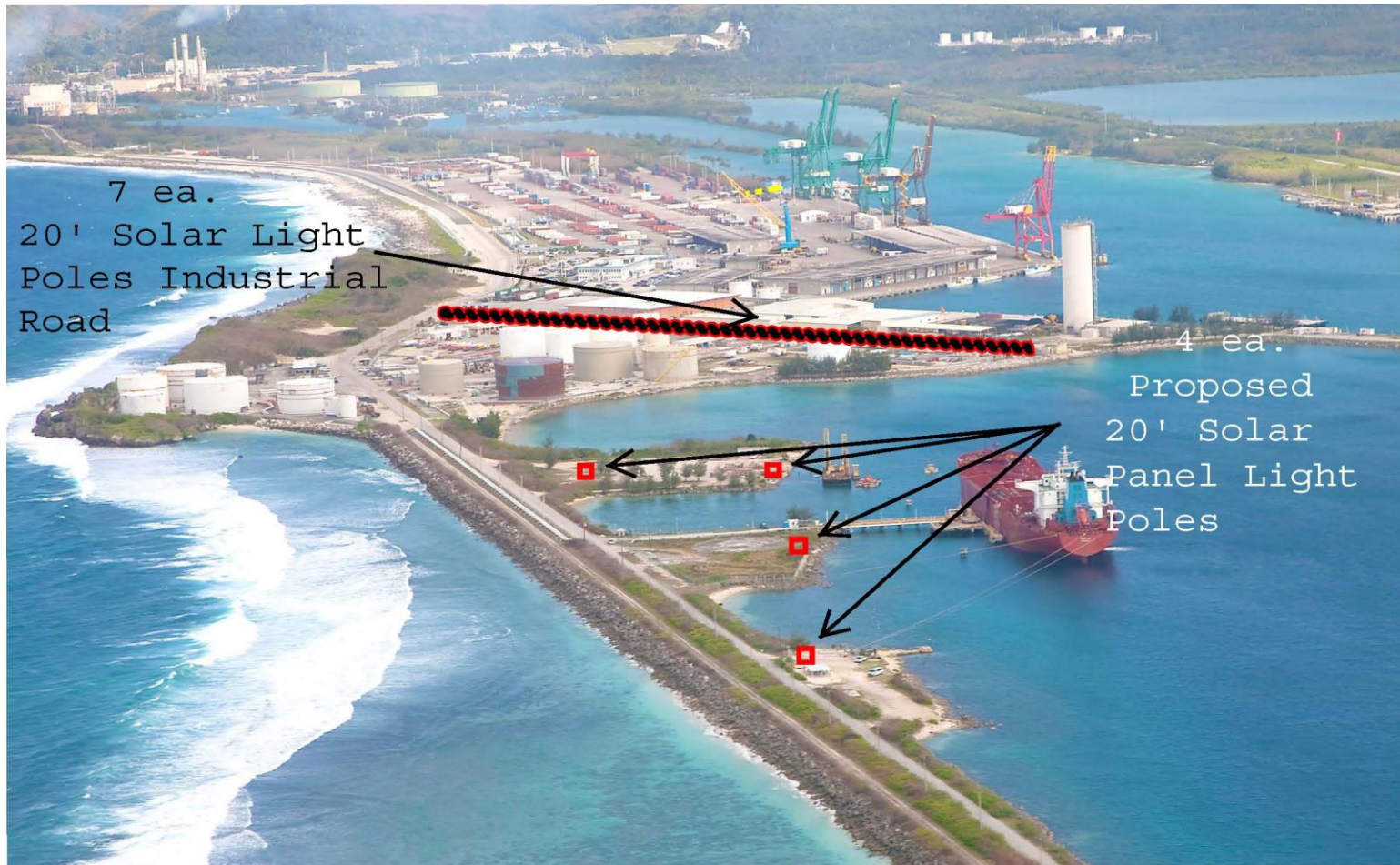
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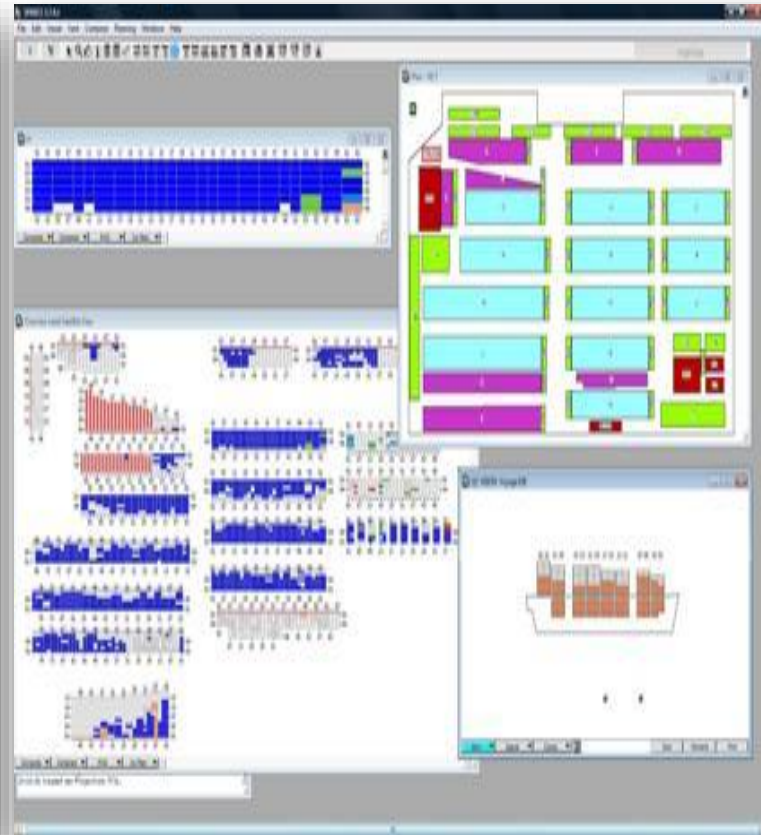
# Port Modernization Program

## FEMA Port Security Grant Program



# Port Modernization Program

## DOI OIA/FWS/FWA/PAG Funded Program





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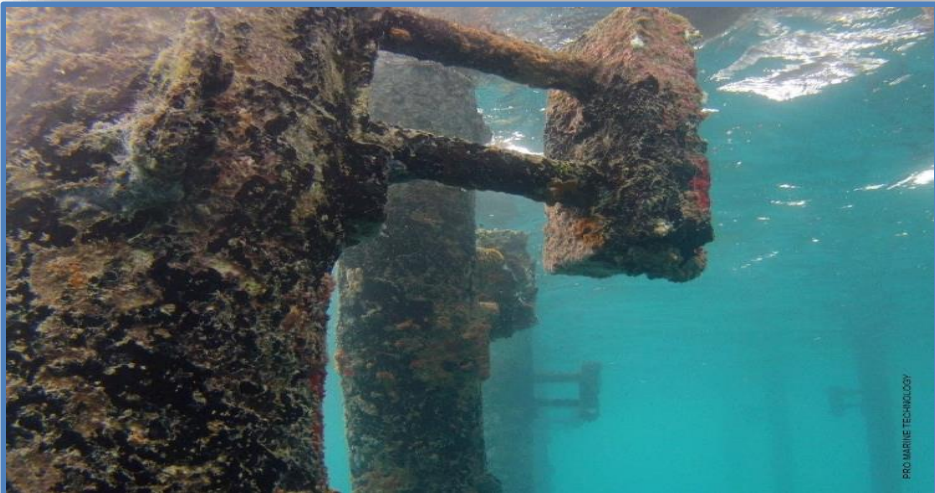
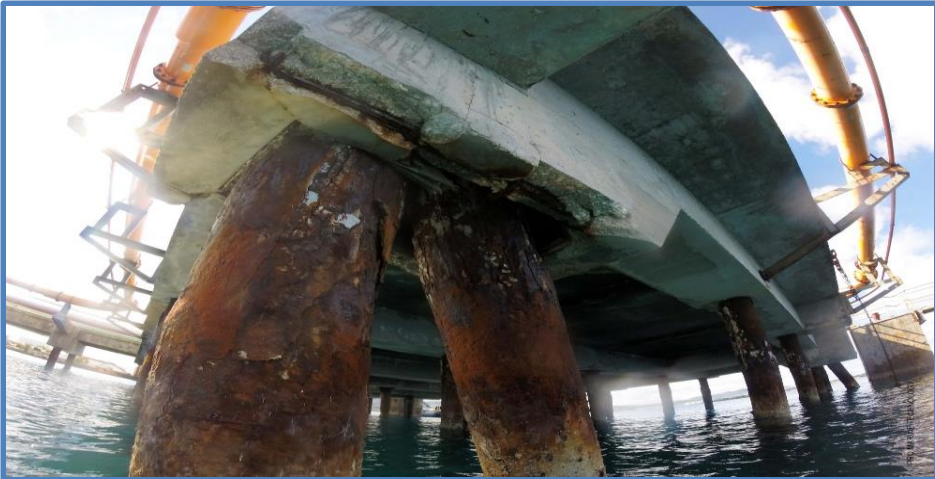
# Ongoing Projects (2018 - 2020)

- 2018 \$71.45 Million Port Revenue Bonded CIP Projects
  - Hotel Wharf Upgrade & Access Road Repair
  - Golf Pier Repair
  - Waterlines Repair
  - Warehouse 1 Bldg. Repair
  - EQMR Building Repair
- Terminal Booth & CMU Wall Repainting & Barb Wire Replacement
- Container Yard Striping
- Load Center Rehabilitation and Upgrade
- CCTV and Access Control System Upgrades
- Agat Marina Dock B Demolition & Repair
- Harbor of Refuge Repair
- Gantry Cranes 2 & 3 Demolition
- Tariff Simplification Project
- Environmental, Health, & Safety Program Development

# Hotel Wharf Upgrade & Access Road Repair



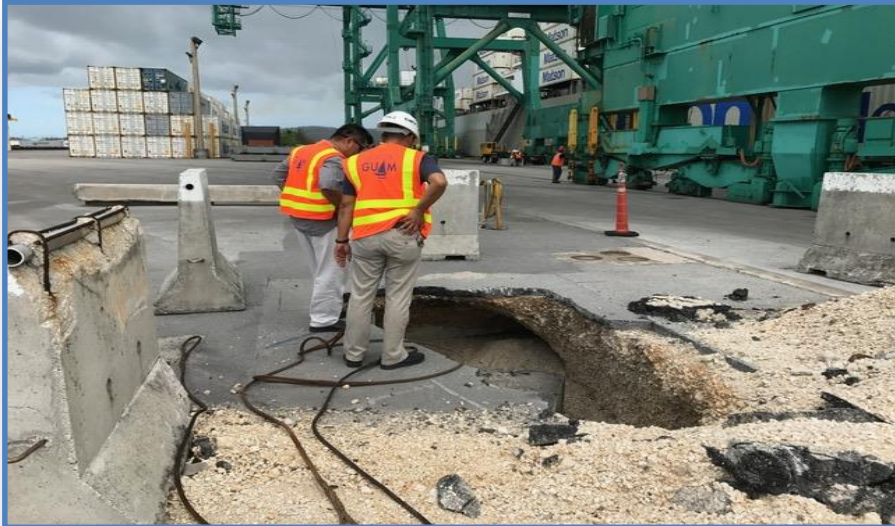
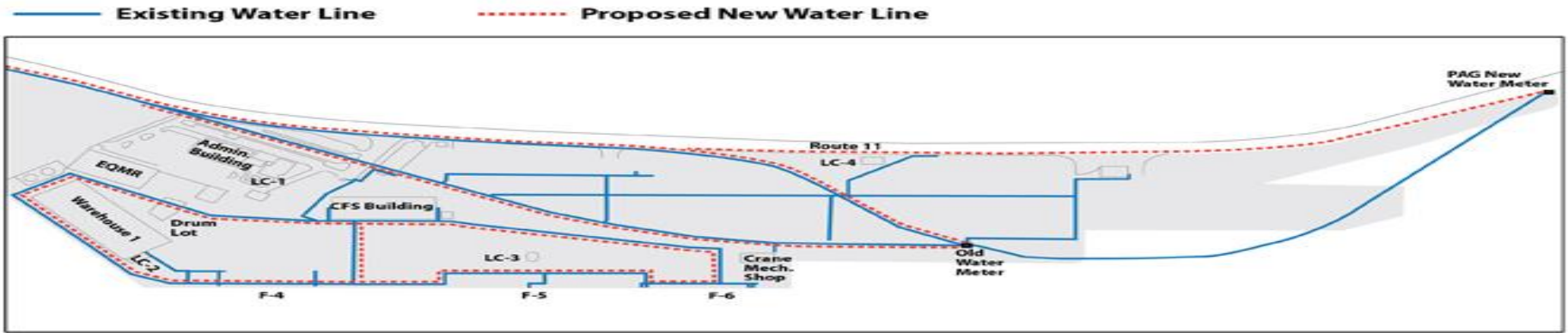
# Golf Pier Repair





# Waterline Repair Project

## Port Diagram



# Warehouse 1 Building Repair



# EQMR Building Repair



# Terminal Booth & CMU Wall Repainting and Barb Wire Replacement



# Container Yard Striping



# Agat Marina Dock B Demolition & Repair



# Harbor of Refuge Repair



# Gantry Cranes 2 & 3 Demolition





# Tariff Simplification Project

## Objective – Simplify the Port’s current tariff structure

- Facilitate the use of a more efficient data processing and billing procedure to eliminate less efficient manual invoicing practices
- Integrate the NAVIS Terminal Operating System (TOS) with the Oracle JDE EnterpriseOne Financial Management System
- Develop alternative tariff structure that can integrate with the NAVIS TOS, and analyze the financial and processing impacts
- Identify tariff items that can be eliminated or combined with other tariff line items
- Prepare necessary PAG documentation to support PUC adoption of any recommended tariff changes

# Environmental, Health, and Safety Program Development

## Objective – Develop a comprehensive EHS Program

- Ensure that the PAG is in compliance with all applicable EHS laws and regulations under Title 22 of Guam Administrative Rules and Regulations, Title 40 CFR, Title 20 CFR Sections 1910, 1917, 1918, & 1926 and US Coast Guard regulations for the protection of PAG employees and the environment
- Develop a comprehensive PAG EHS Plan and Manual
- Develop a required EHS documentation, filing and reporting system
- Perform a comprehensive assessment of all PAG areas of responsibility to ensure that site conditions, operations and work practices & procedures are in compliance with federal and local regulations

# Environmental, Health, and Safety Program Development

## EHS Program Efforts Play a Key Role in Emergency Preparedness

- Minimize level of risk associated with current and expanded operations:
  - Work-related accidents and injuries
  - Spills and releases
  - Noncompliance penalties
- Delineate responsibilities and concomitant authorities to reduce risk of accidents/incidents
- Improve public relations

# Environmental, Health, and Safety Program Development

## Required Environmental Planning

### Hazardous Waste Contingency Plan

- Required under the Resource Conservation and Recovery Act (RCRA)
- Outlines response procedures for fires, explosions, or releases of hazardous waste
- Submitted to local emergency response agencies

### Chemical Inventory Reporting and Planning

- Required under the Emergency Planning and Community Right to Know Act (EPCRA)
- Identifies locations of:
  - Hazardous Substances and Extremely Hazardous Substances
  - Emergency response equipment, utility shutoffs, staging areas
- Submitted to state and local emergency responders
- Guam EPA working to establish State Emergency Response Commission (SERC)

# Environmental, Health, and Safety Program Development

## Required Environmental Planning

### Spill Prevention, Control, and Countermeasures Plan (SPCC)

- Required under the Clean Water Act
- Identifies locations of:
  - Oil storage containers, including oil-filled equipment
  - Emergency response equipment

### Storm Water Pollution Prevention Plan (SWPPP)

- Required under the Clean Water Act
- Best Management Practices (BMPs) to control discharges of industrial storm water
  - Minimizing maintenance activities conducted outdoors
  - Eliminating outdoor storage of wastes and raw materials

# Environmental, Health, and Safety Program Development

## Required Safety Planning

### Job Hazard Analyses

- Not required under regulation
- Minimize risk associated with individual job functions

### Lockout/Tagout (LOTO) Procedures

- Required under Occupational Safety and Health Administration (OSHA)
- Development of equipment-specific LOTO procedures

### OSHA-Required Training Program Development

- Hazard Communication
- LOTO
- Confined Space Entry
- Use of personal protective equipment
- Bloodborne pathogens

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# Environmental, Health, and Safety Program Development

## **Upshot**

Investing in EHS Planning vastly improves port  
emergency response efforts



# The Way Forward (2019 - 2022)

## Planned Modernization Initiatives

- 2020 Master Plan Update
- JDE World Migration to JDE EnterpriseOne Financial Management system
- New Crane Acquisition Program
- Port Wharves Assessment & Upgrade
- New Admin. Annex Bldg. Construction and Old Admin. Bldg. Renovation (Bond Funded Project)
- F1 & Golf Pier Fuel Connectivity Pipeline
- Deep Draft Wharf Improvement Project Feasibility Study
- Customs Inspection Feasibility Study

# 2020 Master Plan Update

## **Objective – Accurately and effectively articulate the Port’s continued near & long term vision to modernization**

- Conduct a comprehensive review, assessment, and update of the 2013 Master Plan to further enhance the PAG’s core capabilities in achieving port resiliency
- Expand the Scope of the Plan to include an updated implementation strategy based on the Port’s financial, operational, and sustainability needs
- Validate and incorporate decisions and outcomes of various initiatives and policy changes that have occurred over the past 5 years
- Review, assess, and provide solutions to further enhance the Operations, Maintenance, IT, and Port Police Divisions
- Prepare necessary PAG documentation to support PUC adoption of any recommended tariff changes

# JDE World Migration to JDE EnterpriseOne Financial Mgmt. System

**Objective – Upgrade the Port’s 20 year old Oracle JDE World financial mgmt. system to a more robust and technologically updated Oracle JDE EnterpriseOne System**

## JD Edwards EnterpriseOne

Asset Lifecycle  
Management

Customer Relationship  
Management

Human Capital  
Management

Project Management

Financial Management

Supply Chain  
Management

JD Edwards EnterpriseOne Tools and Technology

# New Crane Acquisition Program

**Objective – Develop grant application to be submitted to MARAD for the acquisition of two (2) new Ship-to-Shore Gantry Cranes**



# Port Wharves Assessment & Upgrade

**Objective – Assess and develop Scope of Work to repair & upgrade all revenue generating Port wharves to sustain operations & ensure uninterrupted of services**



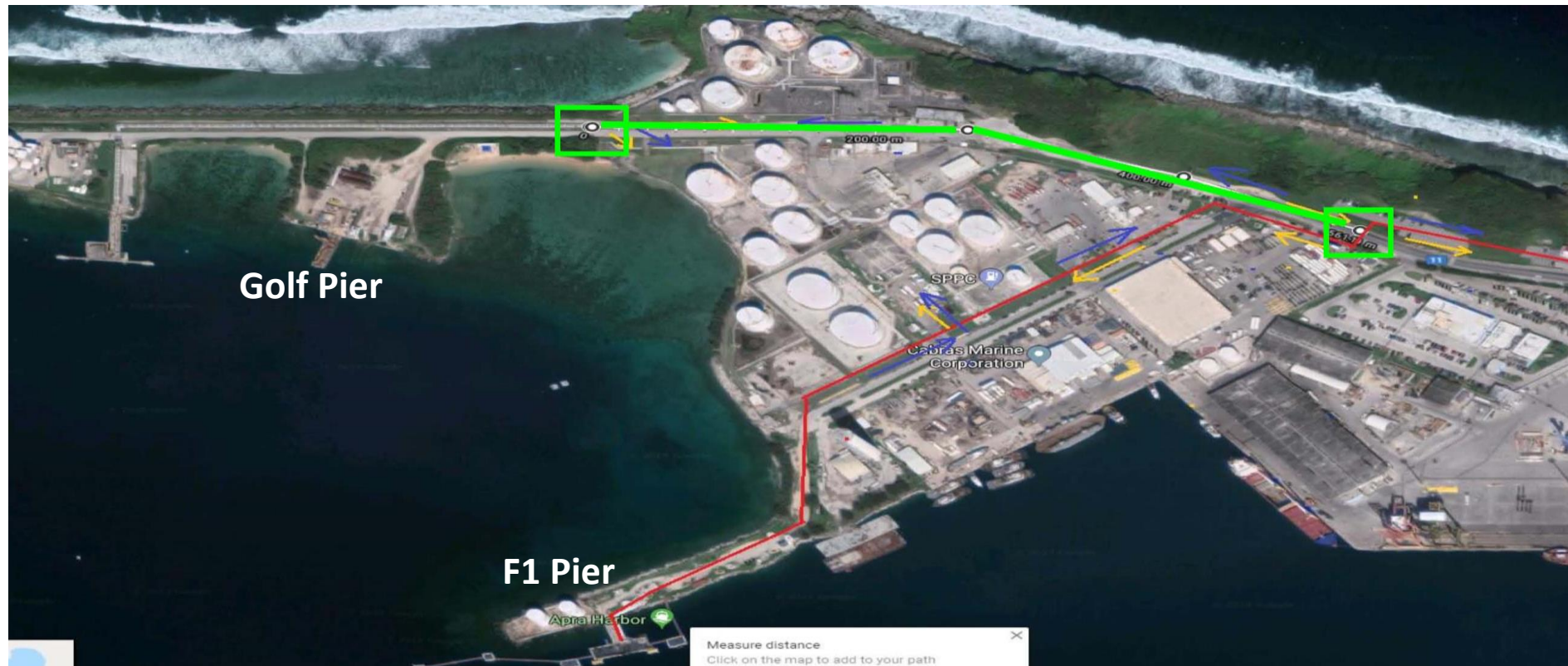
# New Administration Annex Building

**Objective – Construction of new Admin. Annex building and renovation of adjacent old Admin. building**



# F1 & Golf Pier Fuel Connectivity Pipeline

**Objective – Installation of pipeline between two critical Port piers to ensure fuel distribution remains uninterrupted into the island in the event of a major incident impacting either pier.**



# Customs Inspection Feasibility Study

**Objective – Conduct a feasibility study to determine the factors that will make the intent of building a customs inspection facility a prudent and wise decision to enhance the CQA’s core capabilities**





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