

Navigation and Environmental Challenges

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What - Me Worry?



Toward what issues and when do I apply my new skills to secure the best consequences for my port?

NAVIGATION AND ENVIRONMENTAL CHALLENGES

What is important in your world?

- **Group Exercise**
- **2005 HN&E Survey Results**

2005 HN&E Survey Results

PRIORITY ISSUES Averaged Rankings form 1 to 5 with 1 being “most important,”

- DREDGING and dredging material disposal was the highest issue of concern among respondents with an average score of 1.64.

Next in descending order

- STORM WATER runoff (1.91), permits (1.96), contaminated properties (2.23) and sediment contamination (2.25).
- Other concerns were land use and zoning (2.42), oil and chemical spills (2.51), ship discharge (2.64), environmental risk assessment (2.65) endangered species (2.66), habitat loss and degradation (2.66) and air emissions (2.70).

NAVIGATION AND ENVIRONMENTAL CHALLENGES

Results Yield Multiple Perspectives

- **Based on Experience/Responsibilities**
- **Regional Concerns**

Intersections Abound

- **Activities Inside and Outside gate are Interrelated**

ENVIRONMENTAL CHALLENGES [AND OPPORTUNITIES!]

- WHAT is your environmental responsibility as a Port Manager?
- WHAT priority is environmental to you as a Port Manager?
- WHAT Involvement Does Environmental Have in the Daily Grind of Port Business Planning and Decision Making?

Environment Challenges

IS THERE – WILL THERE BE – A NORMAL?

- Would You Recognize it When It Appears?
- How to Prepare for Stability in Time of Uncertainty

ENVIRONMENTAL MANAGEMENT PROGRAMS & SYSTEMS

- Basic Compliance then + + +
- Issues Identification & Technical Specialties
- Institutional Challenges (Re:HN&E Survey)

NAVIGATION AND ENVIRONMENT CHALLENGES IN-HOUSE SOURCES

- DAY TO DAY [Technicians View]
- REGIONAL [a few issues predominant]
- EVENTS [Disasters, EcoPolitical Initiatives]
- STRATEGIC [Reactive to Proactive to Visionary]

**THERE ARE MANY EFFECTIVE MEANS TO
ADDRESS CHALLENGES**

KEY IS PROACTIVITY, PREPARATION

Environment Challenge Issues 1

MANY DRIVERS NOT “ENVIRONMENTAL”

- Market, shipping and vessel characteristics and operational
- Many are under Your Control - Many are Not
- Many are Non-regulatory

AIR

- REGULATORY (Attainment Status)
- HUMAN HEALTH (Toxics)
- EMISSION INVENTORY (Factual Basis)

Environment Challenge Issues 2

WATER

- **STORM WATER / Non-point Source Pollutants**
- **BALLAST WATER - Aquatic Nuisance Species**

TENANT and Non-TENANT OVERSIGHT

- **INSPECTION**
- **PRE & POST LEASE AUDITS**
- **LEASE LANGUAGE and TARIFF PROVISIONS**
- **PORT USER COMPACTS & AGREEMENTS**

Environment Challenge Issues 3

PORT –TERMINAL DEVELOPMENT

- GREENFIELD
- REUSE – BROWNFIELDS
- SHRINKING DEVELOPABLE LAND ASSETS
Consequences of Increased Terminal Productivity
- REGIONAL BUSINESS DEVELOPMENT PLANNING
Economic Engine

Environment Challenge Issues 4

MITIGATION OF IMPACTS (to Air, Water, Natural Resources)

SOPHISTICATED & COMPLEX & PROBLEMATIC

MORE CHANGE COMING

- Proposed Mitigation Rules (Natural Resource)
- Dredging Issue Challenges
- Short and Mid Term Consequences Huge
- Opportunities Huge

Environment Challenge Issues 5

COMMUNITY INVOLVEMENT

- Enormous Challenge
- Beyond NEPA
- Institutional Corporate Commitment

FINANCING AND COSTING

- Business Case

“SUSTAINABLE DEVELOPMENT”

- What Does It Mean to/for Ports?

Challenge of “Sustainable Development”

100 DIFFERENT DEFINITIONS

- The new political construct
- Application to ports unsettled

RESOURCE USE & ALLOCATION

- Financial Challenges

EFFECTIVENESS & PERFORMANCE

- Ecological Energetics Means Testing?

LONG TERM STEWARDSHIP LEADERSHIP

Sustainability

- Realpolitik Eventually
- Opportunity to Define Pragmatic Agenda
- Commitment to continuously improve and to minimize environmental impacts.
- License to Operate? No certainty but the game is afoot. Can't dismiss policy issue in international trading partner practices and negotiations.

Definitions of 1

Realpolitik, [practical politics](#) *politics based on practical rather than moral or ideological considerations*

Sustainable Development *the best known is the World Commission on Environment and Development's. This suggests that development is sustainable where it "meets the needs of the present without compromising the ability of future generations to meet their own needs."*

Sustainable development is a holistic concept, a strategy that requires the integration of economic growth, social equity, and environmental management. Sustainable development aims to make global society not just better off, but better altogether.

Definitions of 2

- DEFINITION OF SUSTAINABLE DEVELOPMENT

The World Business Council for Sustainable Development has noted that while the classic definition of sustainable development: "Meeting the needs of the present without compromising the ability of future generations to meet their own needs" expresses the idea, *it has proven hard to put into practice and communicate to the general public. Sustainable development is a holistic concept, a strategy that requires the integration of economic growth, social equity, and environmental management. Sustainable development aims to make global society not just better off, but better altogether.*

One definition of sustainable development that appears to have more resonance with the general public is that used by the United Kingdom government: "Sustainable development is about ensuring a better quality of life for everyone, now and for generations to come." This focus of sustainable development on improving quality of life is becoming more widely accepted by government, companies, civil society organisations, and others. *A quality of life focus makes the concept more aspirational, and it changes the tone and content of the sustainable development debate so that the emphasis is more on solutions than problems.*

NAVIGATION CHALLENGES 1

Is there a normal? There Use to Be...

DREDGING

- **Capacity for New Work & Maintenance**
- **Contaminants**
- **Lack of Federal Funding O&M and CG**
- **Continuing Contract Regulations**

NAVIGATION CHALLENGES 4

No Consistent WRDA

- Last WRDA 2000.
- No New Projects in the GI or CG pipeline
- Huge Backlog

No future federal funding in navigation?

- Individual Permits – an all “local” \$ future?
- US Regulatory Army Corps of Engineers?

NAVIGATION CHALLENGES 2

THE DEVOLVEMENT OF THE USACE

- 2010
- Watershed Approach - Environmental Restoration Missions
- Navigation Business Line is in Direct Competition to the Environmental Business Line
- Administration Policy and Congressional Agenda

AAPA QPI/SHARE

NAVIGATION CHALLENGES 3

Contaminated Sediments/Brownfields/CERCLA

- Risk Analysis
- Clean-up to "no liability"?
- Balance between present state of science and the future
- Today's standards focus on specific list of chemicals of concern.
- New "tetramethyl bad" of the 21st and 22nd century? [My bet is on rogue Nanobots]

NAVIGATION CHALLENGES 5

Changing Regulations and Social Policies

- How to avoid the irretrievable commitment of resources based on existing regulations in a changing future
- How to get strong deals up front that will supercede-preempt-have primacy over later changes to regulatory programs
- Multimodal Transportation System with Environmental Consequences Extending Outside the Gate

NAVIGATION CHALLENGES 6

GREEN - ENVIRONMENT FRIENDLY - SUSTAINABLE PORT DEVELOPMENT

- We are doing things today that were unheard of 5 years ago
- New technologies & experts and specialties will make the job easier but betterments to institutional practices likely
- Strength in Partnerships & Alliances (Regulators, NGOs, PAGs)

What - Me Worry?



DISCUSSION

Think Globally - Act Globally

Think WIN – WIN

Think BUILD TRUST