



SafeMTS (Near Miss/Close Calls)

BTS – NOAA
April 26, 2023



Agenda

1. SafeMTS Origins and Status
2. Working with BTS
3. Working **WITH** industry
4. Next steps



SafeMTS

A Partnership Between MARAD and BTS



Who is the Bureau of Transportation Statistics?

- BTS is DOT's Principal Statistical Agency
 - **Authority** to protect confidential data
 - **Infrastructure** to support data collection programs and protect confidential data
 - **Expertise** in statistics, data analysis, and IT systems
 - **Experience** in safety data collections for transportation and energy sectors
 - Design, develop, and operate CIPSEA **precursor safety data programs**:
 - C³RS / Freight Rail (2006-2012)
 - WMATA Close Call (2012-present)
 - SafeOCS, a partnership with DOI/BSEE (2013-present)



BTS Legal Authority: CIPSEA

Confidential Information Protection and Statistical Efficiency Act

Title III of Foundations for Evidence-Based Policymaking Act of 2018, Pub. L. 115-435 (reauthorizing 2002 E-Gov Act)

Sets up framework wherein adverse actions cannot legally be taken against data submitters, nor can raw data be used for regulatory purposes

What is confidential?

- The original reports (microdata) reported to BTS through SafeMTS
- Any BTS working documents
- Any working documents developed by the SMEs

What is not confidential?

- Documents developed for public dissemination using confidential information in aggregate format



SafeMTS

A Collaboration Between Industry and Government



Who Defines the Value?

- Strong input from the industry is essential
- The MARAD and BTS value the input of the companies
- **Safety-Safety-Safety, Environment-Environment-Environment:** Industry shares learnings, identifies gaps, and maintains safety of facilities, safety of personnel, safety of environment, and safety of operations.

Overarching Objective:

To provide a comprehensive source of near miss / close call reports and explore the potential for prevention of adverse events

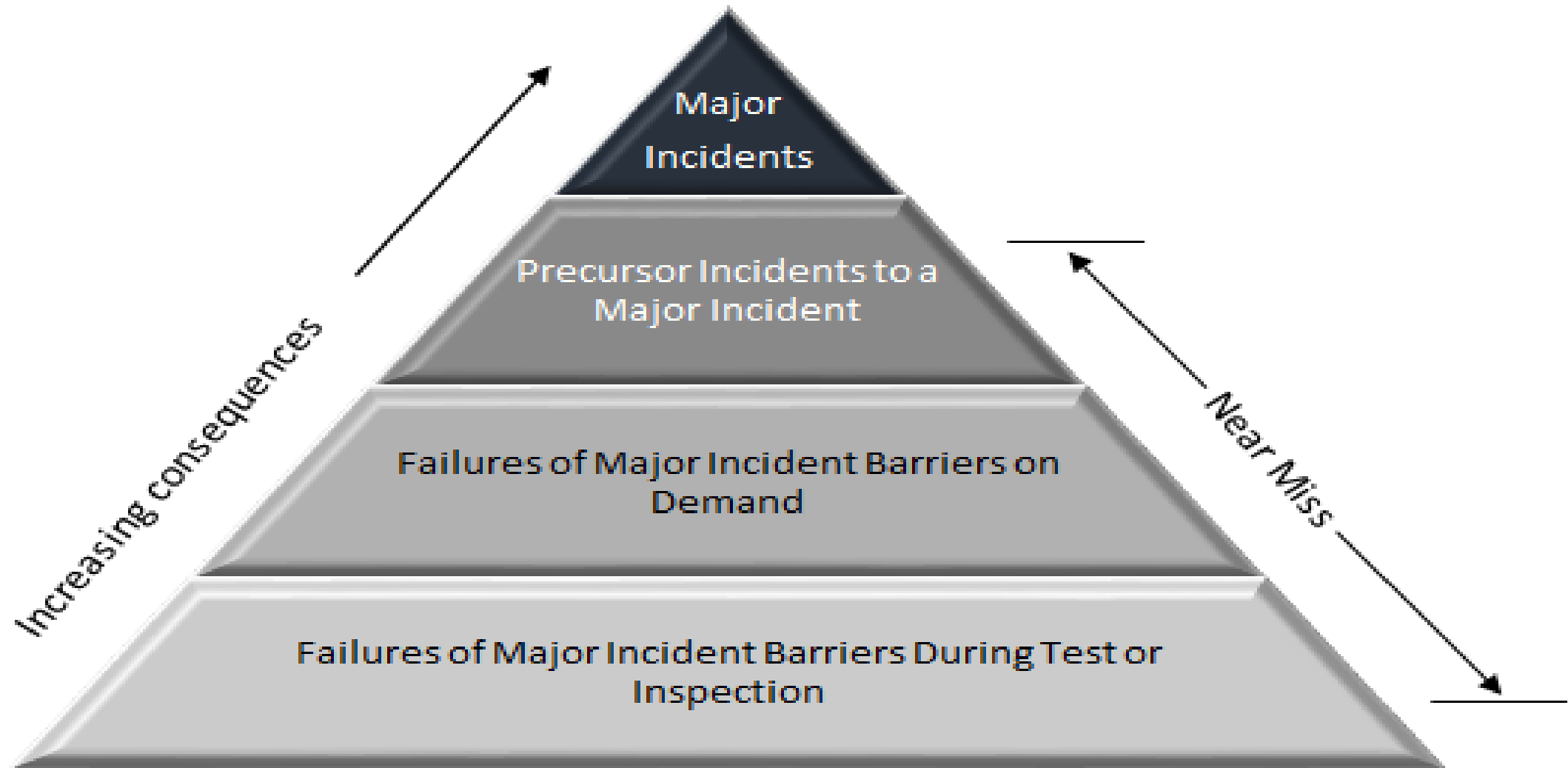


SafeMTS at a Glance

- SafeMTS: A voluntary, confidential, non-punitive program aimed at collecting, analyzing, and benchmarking near miss data from the maritime industry to advance safety and environmental stewardship.
- Objectives:
 - Collect near miss data from industry partners that can be analyzed to identify safety-related trends to prevent incidents or identify otherwise non-correlated events.
 - Share results with industry stakeholders to support continuous safety improvement efforts
 - Align ASTM standard to data collection and reporting requirements for SafeMTS



Stated in a Simpler Way, the Data Triangle



SafeMTS Learning from SafeOCS and Other BTS Precursor Safety Data Programs



SafeOCS (cont'd)

- Transition to **full program** in mid-2018, with all energy exploration/production and service provider companies working on the Outer Continental Shelf invited to participate.
- Participants now represent **over 92% of Gulf of Mexico oil and gas production**
- About 94,000 records collected since end of pilot, with capability to handle much more
- **LESSONS LEARNED:**
 - Company **legal and confidentiality concerns satisfied** by protections afforded under BTS authorities and MOA between BTS and each company
 - **Successful process developed** to map disparate data from individual companies to a single database
 - Data fields identified during pilot were used to generate **meaningful insights and information for decision-making** by stakeholders

Participants	Phase I	Full Program
Operators	6	13
Service Companies	1	3
Drilling Contractors	2	2
Total Companies	9	18



SafeMTS

SafeMTS Pilot Overview



SafeMTS Pilot: Timeline

- Target to complete pilot: October 2023
- Selected milestones (CY)
 - 2022 Q3- 2023 Q1: Onboard participating companies; collect data
 - 2023 Q2: Meeting with initial data contributors to collect input and feedback regarding initial program development
 - 2023 Q2: Stakeholder meetings to review interim results
 - 2023 Q3: Publish aggregated results and lessons learned from pilot process
- Following pilot, adjust program characteristics based on lessons learned and expand program to additional companies



SafeMTS Sample Data (cont'd)

What?

Incident Title (free text)

Incident Description (free text)

Incident Remarks (free text)

Incident Type (near miss/hazard recog.)

Incident Category

Near Miss Attributes

Near Miss Classification

Near Miss Location

Near Miss Potential Consequence

Near Miss Activity Performed

Near Miss System/Equipment Involved

Near Miss Criticality Level

↓
*Categorical data fields
(categories on next slide)*

Preventive/Corrective Action

Preventive Action Suggested

Preventive Action Accepted

Initial Action Taken

Corrective Action Taken

↓
Free text data fields



Next Steps for Data Fields

- BTS & MARAD has create an excel sheet of proposed data fields and values
- Circulated the excel sheet to WTG and SOCP work group members
- Start drafting codebook that provides definitions for each data field and categorical value



Next Steps: SafeMTS Program / Phase II

- Focus on steps to improve data analytics to increase application of predictive analytics
- Incorporate learnings from Phase I; Identify effective leading indicators; Promote dialogue
- Outcomes:
 - Review data trends and share learnings
 - Address risk considerations



Questions for Discussion

- Questions?



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