TOWING VESSEL SAFETY & COMPLIANCE

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COMPLIANCE

"It's Not Just A Good Idea...It's The Law"
-Albert Einstein (E=MC2)

SAFETY

"Blood Is A Big Expense"
-GODFATHER







CAVEMAN SETTING OUT ON FIRST TOWING VESSEL VOYAGE VOYAGE ENDS IN FLAMES RESULTING IN DISCOVERY OF FIRE

FIRST MARINE ACCIDENT

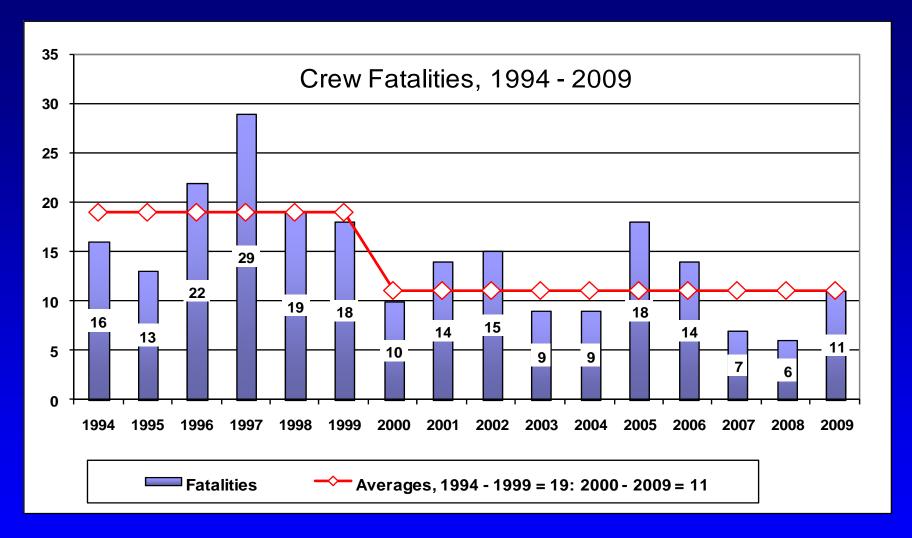


Standard Safety Metrics

- > Crew Fatalities
- **Vessel Incidents**
 - > Crew Injuries



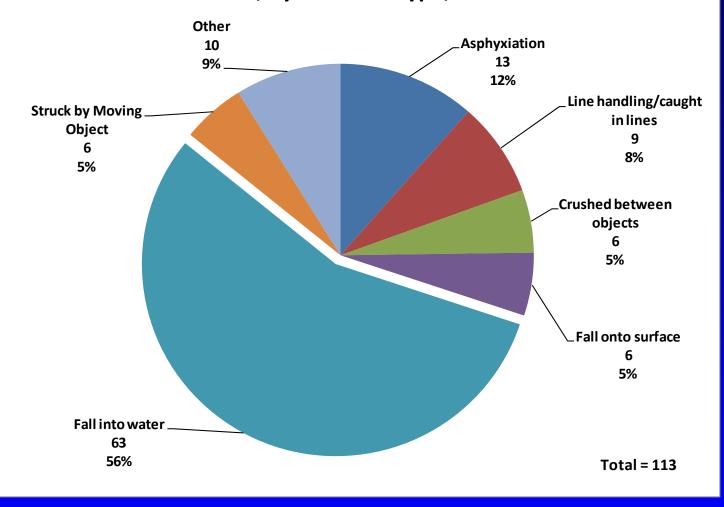








Crew Fatalities, By Accident Type, 2000 - 2009









Injury Severity Scale

Injury Severity Scale Description and Examples

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Minor The injury is minor or superficial. No professional medical treatment was required.

Examples: Minor/superficial scrapes (abrasions); minor brusies; minor cuts; digit sprain; first degree burn; minor head trauma with headache or dizziness: minor sprain/strain

Moderate The injury exceeds the minor level, but did not result in broken bones (other than fingers, toes or nose), loss of limbs, severe hemorrhaging, muscle, nerve, tendon or internal organ damage. Professional medical treatment may have been required. If so, the person was not hospitalized for more than 48 hours within 5 days of the injury.

Examples: Broken fingers, toes or nose; amoutated fingers or toes; degloving of fingers or toes; dislocated joint; severe sprain/strain; second/third degree burns covering 10% or less of body (if face included, move up one category);

herniated disc.

Serious

The injury exceeds the moderate level and requires significant medical/surgical management. The person was not hospitalized for more than 48 hours within 5 days of the injury.

Examples: Broken bones (other than fingers, toes, or nose); partial loss of limb (amputation below elbow/knee); degloving of

entire hand/arm or foot/leg; second/third degree burns covering 20-30% of body (if face included, move up one

category); bruised organs

Severe

The injury exceeds the moderate level and requires significant medical/surgical management. The person was hospitalized for more than 48 hours within 5 days of the injury and, if in intensive care, was in for less than 48 hours.

Examples: Internal hemorrhage; punctured organs; severed blood vessels; second/third degree burns covering 30-40% of body

(if face included, move up one category); loss of entire limb (amputation of whole arm/leg)

Critical

The injury exceeds the moderate level and requires significant medical/surgical management. The person was hospitalized and in intensive care for more than 48 hours within 5 days of the injury.

Examples: Spinal cord injury: extensive second- or third-degree burns; concussion with severe neurological signs; severe

crushing injury; internal hemorrhage; second/third degree burns covering 40% or more of body; severe/multiple organi

damage

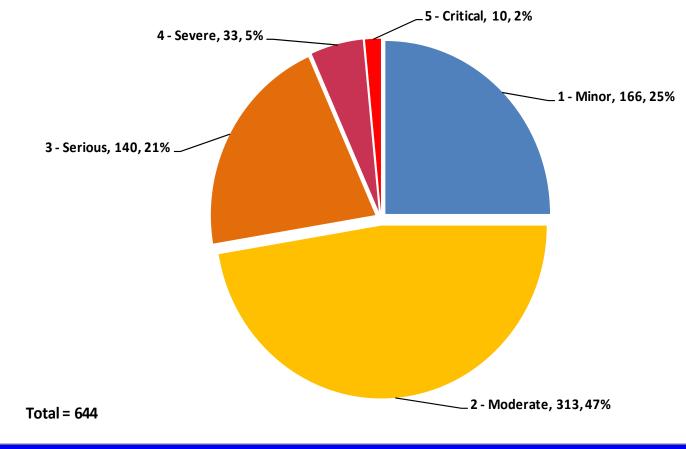
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INJURY SEVERITY

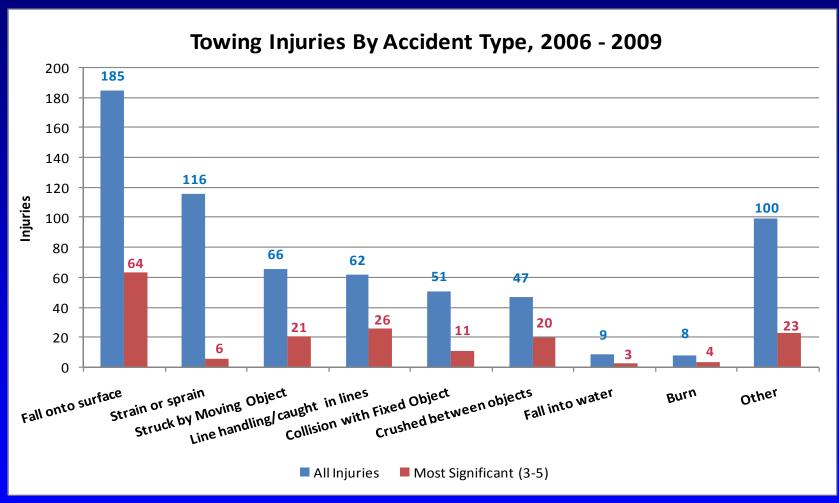








INJURIES BY ACCIDENT TYPE







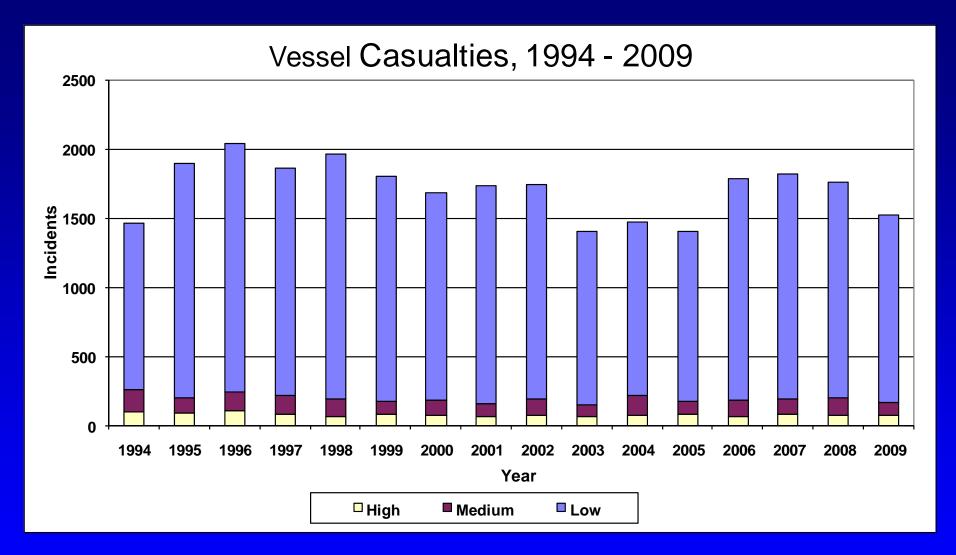


Severity Classes for Vessel Casualties

Incident Severity	Description
Low	Damage: \$0 - \$50,000 or not reported No injuries or deaths Pollution: 0 - 10 gallons of oil spilled CG Casualty Class: None/Routine
Medium	Damage: \$50,001-\$250,000 No injuries or deaths Pollution: 11-1000 gallons of oil spilled CG Casualty Class: "Significant"
High	Damage: \$250,001 or more ANY injuries or deaths Pollution: 1,001 or more gallons spilled Casualty Class "Serious" or "Major"

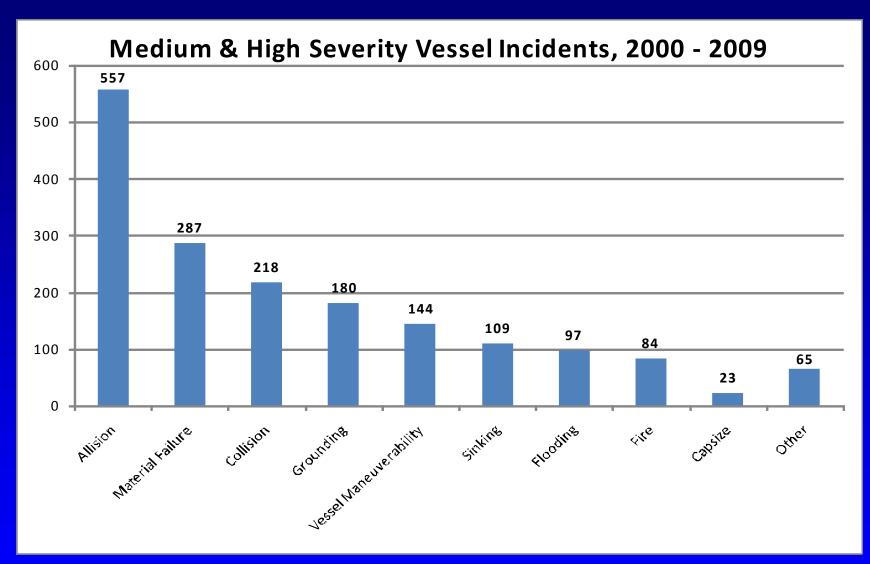
















Casual Observations Suggest*

Majority of Incidents Involve Vessels:

- **≻Under 100 FT LOA**
 - **≻Under 200 GRT**
 - **►Under 2000HP**
- **►Under 9HP (or less)/Ton**
- > Allisions biggest problem
- **►Major Causal Factor is Human Error**

*unofficial review





TOP TEN SAFETY DEFICIENCIES

Top Ten "Towing Vessel Deficiencies" include the following:

- ➤ General Alarm missing placards and visual indicators
- **▶** Running Lights inoperable or improper bulbs
- ➤ Remote Fuel Shut-Off valves-- not operable/missing at remote location
- **▶** Fire Detecting Control Panel improper functioning
- **►** Life Buoys improper or faded markings
- Fire Pumps lack of remote start fixed pumps/storage of portable pumps
- **▶** Vessel Response Program equipment and trained crew
- **▶** Vessel Security Plan lack of plan and / or drills
- **➤ Wiring Materials & Installs exposed wiring / loose junction boxes**
- **▶** Guards for Exposed Hazards missing machine guards

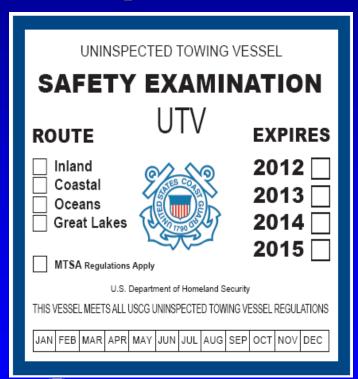




Towing Vessel Bridging Program (TVBP)

(Sub-Chapter "C" COMPLIANCE)

Pre-Subchapter "M"





Post-Subchapter "M"

	Unito	United States of America Department of Homeland Security United States Coast Guard		Certification Date: Expiration Date:		07 May 20 07 May 20	
	Departe United			IMO Number:		7209447	
	ertifica	te of In	ısp	ectio	n		
Vascal Name CONSTITUTION		Official Number 538087	Cell Sign WCX45	09	Towing	g Vessel	
Halling Port WILMINGTON DE		Steel	11128		Propulsion Diesel	Reduction	
Place Bull SLIDELL LA, UNITED STATE	s	Delivery Date Date Keel Leid 15Dec1971	Gross Tons R-972 F	Net Yors R-661	DWT 1543	Length R-133.2 I-	
MARITRANS CONSTITUTION TWO HARBOUR PLACE AVE 12FL TAMPA, FL 33602	N CO 302 KNIGHTS RUN	MARITRANS OPERA 302 KNIGHTS RUN A 1200 TAMPA, FL 33602 UNITED STATES		PANY LP	SUI	ΓE	
This vessel must be mann 2 certified lifeboatmen, 0 c					which th	ere must be	
Chief Mafe 2nd Mate/OICNW 3rd Male/OICNW	Mate & 1st Class Pilot 2 Lic. Mate/OICNIW 1st Class Pilot	1 Ordinary Sea Deckhands	1 Ordinary Seamen 2nd A Deckhands 3rd At Lio. Ei		and Engr. 3rd Engr.	Ollers 2 ASST	
In addition, this vessel may or persons allowed: 20 Route Permitted and Condition		other persons in crew, 9	persons ii	n addition to cre	w, and n	o others. Tota	
Oceans							
NOT ON AN INTERNATIO	NAL VOYAGE.						
WHEN OPERATING ON VO	YAGES OF LESS THA	N 400 MILES, THE	MINIMUM	CREW MAY B	E REDUC	ED TO THE	
1 MASTER 2 MATES * 2 OTHER PERSONS IN	1 ASST ENG		Y SEAMAI	N DITION TO C	REW		
***SEE NEXT PAGE FOR AD							
With this Inspection for Certi Philadelphia, Pennsylvania ce rules and regulations prescrib	rtified the vessel, in all r						
Annual/Periodic/Quarte Date Zone A/P/Q	erly Reinspections	This Amended certification	ate issued l	by:			
- Lone A/P/U	- Signature	B. M. SALER	RNO, CAP	T, USCG		_	
	-			rge, marine mapecases			
	-	MSO BOST	ON Inspection Zo			_	



Current TVBP Plan A phased approach...

Phase I

Summer 2009

Phase II

18-24 Months later

Phase III

Sub-Chapter "M"

Outreach & Education

Risk Based Exams

COI Issuance

Industry Initiated Exams

USCG Personnel Training (cont.)

USCG Personnel Training







TOWING VESSEL NATIONAL CENTER OF EXPERTISE

VISION

Be the Coast Guard's forward thinking center for the towing industry to keep all towing industry stakeholders well informed and prepared to operate safely and compliant.

MISSION

Provide technical and operational advice to both the Coast Guard AND industry to enhance collective competencies.



FUNCTIONS

- Facilitate Towing Vessel Bridging Program.
- ➤ Train Coast Guard Examiners by developing and teaching relevant courses.
- > Conduct Outreach and foster partnerships.
- Repository for policy and guidance.
 Homeland
 United States
 Security
 Coast Guard

FUNCTIONS (continued)

- Interpret or clarify policy, guidance, and regulations
- Ensure a high level of applied consistency CG-wide
- Gather, organize, provide statistical information
- Research towing vessel issues/ onsite assistance





CONTACT TVCOE

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Technical Specialist
Mr. Bill Perkins
William.G.Perkins@uscg.mil

Towing Vessel National Center of Expertise 504 Broadway, Suite 101 Paducah, KY 42001 (270) 444-7715

http://www.uscg.mil/hq/cg5/cg54ti/TVNCOE.asp





Coast Guard Resources

USCG HOMEPAGE--- http://homeport.uscg.mil

<u>Path</u>= "Missions">"Domestic Vessels">"Uninspected Vessels">"Towing Vessels"......

Of Importance See 2 Separate Items:

...>"Towing Vessel Bridging Program">"UTV Exam Form" (.pdf)
AND/OR

...>"Requirements for Uninspected Towing Vessels Guide Book" (.pdf)

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SECTOR HAMPTON ROADS = (757) 668-5528 /









