

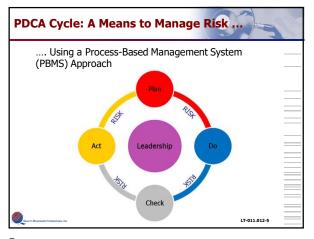
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or Injuries	Estin	nated	Costs >	_
vav can an	nount	to mi	llions of	_
	iounic	0 111		
				_
2010	2011	2013	2014	
41,354	40,512	39,999	40,082	_
	31,412	31,081	31,043	_
8,202	9,078	8,918	9,039	_
ant a				-
19.6	18.5	19.3	17.7	_
19.6	18.5	19.3 12.1	17.7	
92	11.5	12.1	14.1	
92	11.5 17.0	12.1 14.3	14.1 12.4	
	2010 41,354 33,152	or Injuries Estin vay can amount 41,354 40,512 31,152 31,142	or Injuries Estimated vay can amount to mil 2010 2011 2013 41,354 40,512 29,999 20,152 31,651 31,661	or Injuries Estimated Costs > vay can amount to millions of 2010 2011 2013 2014 41,554 40,512 30,999 40,882 20,152 31,642 31,041 31,043



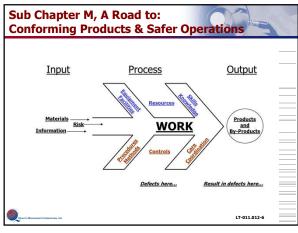




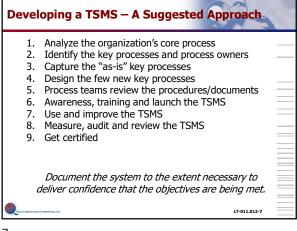




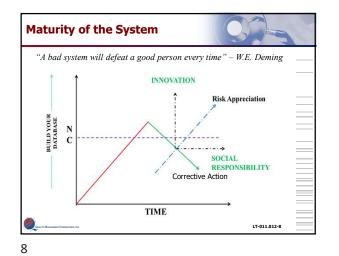








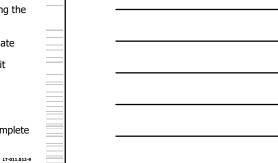




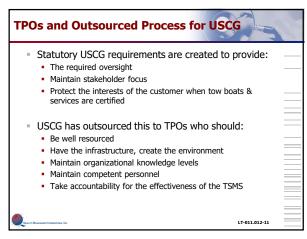


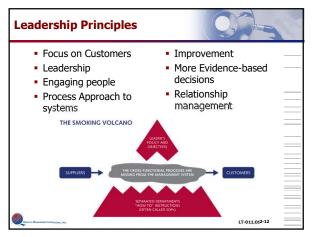
Creating an Environment for Safe Operations
Agreed requirements are not met because:

Information does not get to the person doing the job
Information is often incomplete, or out of date
People may know what to do but fail to do it
Process controls may be inadequate
Tasks may not be assigned to individuals
Increased expense would be incurred to complete the task



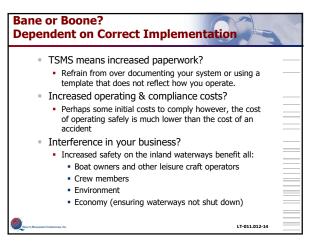








Which Option to Choose?	
 OPTION A - The "Coast Guard Option" (46 CFR 136.130(a)(1)). Perhaps best for small towing companies who own just two or three vessels. This option requires annual visitation by the CG for the inspections. OPTION B - The "TSMS" Option (137.130) More logical choice, for larger operators, for convenience and for the cost. Requires: Either Internal (first-party) surveys to be overseen by a TPO O T External (TPO) surveys, where the TPO conducts independent verifications to assess compliance at the appropriate times in the cycle. The USCG Certificate of Inspection (COI) is: Valid for five years Requires a valid TSMS issued by a TPO. 	
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Reduce the Burden on the Workforce	
 Subchapter M is not only about compliance. It is about building a safety culture. 	
Streamline and reduce the paperwork:	
 That supports compliance / conformity 	
 By greater use of technology 	
 Identifying common areas and integrating documentation requirements 	
 Motivate the workforce to use and improve the system: 	
 To use the reporting and monitoring systems 	
 To build a culture of risk assessment / risk-based thinking 	
 Explore measures to reduce the cost of compliance 	
Improve monitoring and develop performance indicators	





