

National Transportation Safety Board

Accident Overview Sinking of Cargo Vessel El Faro

Brian Young Investigator-in-Charge



Investigation

CV El Faro Dive 02 CURV 21 USN SUPSALV





National Transportation Safety Board

Accident Narrative: Sinking of Cargo Vessel El Faro





On Scene Team

- Board Member Dinh-Zarr
- Office of Marine Safety
- Office of Research and Engineering
- Office of Highway Safety
- Office of General Counsel
- Office of Chief Information Officer
- Office of Safety Recommendations and Communications
 - Transportation Disaster Assistance Division
 - Government Affairs
 - Media Relations





Investigation Team

- Brian Young Investigator-in-charge/Engineering
- Eric Stolzenberg Naval architecture
- Michael Kucharski Nautical operations
- Carrie Bell Human factors
- Mike Richards Meteorology
- Jon Furukawa Survival factors
- Doug Mansell Voyage data recorders
- Sean Payne Voyage data recorders
- Charlotte Cox Writer/editor



Staff that Supported Team

- Monica Mitchell Writer/editor
- Andrew Ehlers Writer/editor
- William Tuccio Voyage data recorders
- Chris Babcock Voyage data recorders
- Dennis Crider Vessel stability
- Xiaohu Liu Cargo lashing analysis
- Loren Groff Research and engineering
- Greg Smith Research and engineering



Staff that Supported Team

- Katherine Chisom Family assistance
- Stephanie Matonek Family assistance
- Alice Park Animation
- Carl Schultheisz Animation
- Christy Spangler Vessel graphics
- Ed Kendall General counsel
- Peter Knudsen Media relations



Parties to the Investigation

- United States Coast Guard
- TOTE Services
- American Bureau of Shipping
- National Weather Service
- Herbert Engineering
- Palfinger Marine



Investigation

- Interviews
- Document collection / review
- Marine Board of Investigation hearings
- Independent analytical reports





Investigation – El Yunque





Safety Issues

- Loss of propulsion
- Flooding in cargo holds
- Downflooding through ventilation closures
- Need for damage control plan
- Lack of suitable survival craft
- Late decision to muster the crew



Safety Issues

- Inadequate company oversight
- Company's safety management system
- Ineffective bridge resource management
- Use of noncurrent weather information
- Captain's actions



Other Issues

- Alternate Compliance Program
- Voyage data recorders
- Expanded use of automatic identification system



Presentations - Morning Engineering factors Brian Young Flooding of cargo holds Eric Stolzenberg Damage control and stability information Michael Kucharski Survival factors Jon Furukawa



Presentations - Afternoon

Electronic data

Onboard weather information and weather reporting from vessels Human performance factors Captain's decision-making and actions Sean Payne Mike Richards

Carrie Bell Michael Kucharski

