



NTSB National Transportation Safety Board

Office of Marine Safety

Environmental Response Information

Crystal Thomas
Office of Rail, Pipeline, and Hazardous
Materials Investigations

Vessel Damage



NTSB



Extent of Oil Spill



NTSB



Spill Quantification

- 0830 – Allision occurred
- 0832 – Sector San Francisco notified
- 0846 – PI team en route
- 0947 – PI team boarded *Cosco Busan*
- 1030 – PI team reported 146-gallon loss

Spill Quantification, cont.

- 0930 – OSPS arrived at Yerba Buena Island
- 1130 – OSPS en route
- 1230 – OSPS boarded *Cosco Busan*
- 1335 – OSPS calculated 58,020-gallon loss
- 1600 – OSPS reported loss to SOSOC
- 1700 – Unified Command advised

Spill Quantification, cont.

- OSROs responded to potential worst-case spill
- 146-gallon estimate not provided to OSROs
- Delay in relaying 58,020-gallon estimate to Unified Command had no bearing

FOSC Evaluation

- Did not inquire about tank capacities or pre-allision fuel tank quantities
- Did not inquire about maximum potential or reasonable worst-case spill
- Relied on representative to assess and act on incoming reports

FOSC Evaluation, cont.

- Responsible for overseeing response efforts
 - Assume control if not being properly conducted

Notifications

- Vessel required to contact OSRO within 30 minutes of discovery of discharge
 - OSRO notified at 0917 (20 minutes)
- Owner/Operator or designee to contact QI, OES, and NRC no more than 30 minutes of discovery of discharge
 - QI notified at 0915 (18 minutes)
 - OES notified at 0942 (45 minutes)
 - NRC notified at 0949 (52 minutes)

Coordination

- 0950 – Incident commander dispatched by QI
- 0951/1041 – Incident commander officially activated OSROs
- Incident commander maintained contact with QI and OSROs
- Despite lack of physical presence, incident commander actively monitored response efforts/passed information to Coast Guard

Response Efforts

- MSRC and NRCES in close proximity
- Resources mobilized within minutes
 - 80 min. – 8,588 bbl/day capacity
 - 2 hours – 40,476 bbl/day capacity
 - 6 hours – 75,043 bbl/day capacity
- Far exceeded California's requirement
- Timely and effective response

Post Accident Actions

- DFG-OSPR
 - Roles and procedures for quantifying spills
 - Hired additional specialist
 - Reinforced 30-minute requirement
- ISPR and DHS addressed spill quantification
- ALCOAST guidance to base response on maximum potential spill
- OES revised notification procedures to ensure appropriate counties are notified



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