



Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco-Oakland Bay Bridge San Francisco, California November 7, 2007

National Transportation Safety Board

Download now

[Click here](#) if your download doesn't start automatically

Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco-Oakland Bay Bridge San Francisco, California November 7, 2007

National Transportation Safety Board

Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco-Oakland Bay Bridge San Francisco, California November 7, 2007

National Transportation Safety Board

On November 7, 2007, the Hong Kong-registered, 901-foot-long containership M/V Cosco Busan allided with the fendering system at the base of the Delta tower of the San Francisco–Oakland Bay Bridge. Contact with the bridge tower created a 212-foot-long by 10-foot-high by 8-foot-deep gash in the forward port side of the ship and breached the Nos. 3 and 4 port fuel tanks and the No. 2 port ballast tank. As a result of the breached fuel tanks, about 53,500 gallons of fuel oil were released into San Francisco Bay. No injuries or fatalities resulted from the accident, but the fuel spill contaminated about 26 miles of shoreline, killed more than 2,500 birds of about 50 species, temporarily closed a fishery on the bay, and delayed the start of the crab-fishing season. Total monetary damages were estimated to be \$2.1 million for the ship, \$1.5 million for the bridge, and more than \$70 million for environmental cleanup.

 [Download Marine Accident Report: Allision of Hong Kong-Regi ...pdf](#)

 [Read Online Marine Accident Report: Allision of Hong Kong-Re ...pdf](#)

Download and Read Free Online Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 National Transportation Safety Board

From reader reviews:

Katie Doll:

This Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 are usually reliable for you who want to be considered a successful person, why. The main reason of this Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 can be one of the great books you must have is definitely giving you more than just simple reading food but feed a person with information that might be will shock your before knowledge. This book is actually handy, you can bring it all over the place and whenever your conditions throughout the e-book and printed types. Beside that this Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 giving you an enormous of experience for example rich vocabulary, giving you tryout of critical thinking that could it useful in your day task. So , let's have it and luxuriate in reading.

Manuel Britton:

Playing with family within a park, coming to see the sea world or hanging out with pals is thing that usually you may have done when you have spare time, subsequently why you don't try thing that really opposite from that. Just one activity that make you not sense tired but still relaxing, trilling like on roller coaster you are ride on and with addition of information. Even you love Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007, you are able to enjoy both. It is good combination right, you still desire to miss it? What kind of hangout type is it? Oh occur its mind hangout guys. What? Still don't understand it, oh come on its called reading friends.

Joseph Levis:

Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 can be one of your starter books that are good idea. All of us recommend that straight away because this publication has good vocabulary that may increase your knowledge in words, easy to understand, bit entertaining but still delivering the information. The writer giving his/her effort to get every word into enjoyment arrangement in writing Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 although doesn't forget the main level, giving the reader the hottest and based confirm resource information that maybe you can be certainly one of it. This great information may drawn you into fresh stage of crucial thinking.

Aurora Ammon:

This Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 is great book for you because the content which can be full of information for you who have always deal with world and still have to make decision every minute. This specific book reveal it details accurately using great arrange word or we can point out no rambling sentences inside. So if you are read that hurriedly you can have whole facts in it. Doesn't mean it only gives you straight forward sentences but tricky core information with splendid delivering sentences. Having Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 in your hand like getting the world in your arm, information in it is not ridiculous 1. We can say that no publication that offer you world inside ten or fifteen minute right but this publication already do that. So , it is good reading book. Hi Mr. and Mrs. hectic do you still doubt that will?

Download and Read Online Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 National Transportation Safety Board #20N3EVOHJCI

Read Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 by National Transportation Safety Board for online ebook

Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 by National Transportation Safety Board Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 by National Transportation Safety Board books to read online.

Online Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 by National Transportation Safety Board ebook PDF download

Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 by National Transportation Safety Board Doc

Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 by National Transportation Safety Board Mobipocket

Marine Accident Report: Allision of Hong Kong-Registered Containership M/V Cosco Busan with the Delta Tower of the San Francisco?Oakland Bay Bridge San Francisco, California November 7, 2007 by National Transportation Safety Board EPub