

SAN FRANCISCO PLANNING DEPARTMENT

Legacy Business Registry Case Report

HEARING DATE: MARCH 15, 2017

Filing Date:	February 15, 2017
Case No.:	2017-002434LBR
Business Name:	Red and White Fleet
Business Address:	Pier 43 1/2, Fisherman's Wharf
Zoning:	C-2 (Community Business)/
	40-X Height and Bulk District
Block/Lot:	9900/043H
Applicant:	Thomas Crowley Escher, President
	Pier 43 1/2, Fisherman's Wharf
	San Francisco, CA 94133
Nominated By:	Supervisor Aaron Peskin, District 3
Staff Contact:	Desiree Smith - (415) 575-9093
	desiree.smith@sfgov.org
Reviewed By:	Tim Frye – (415) 575-6822
	tim.frye @sfgov.org

1650 Mission St. Suite 400 San Francisco. CA 94103-2479

Reception: 415.558.6378

Fax. 415.558.6409

Planning Information: 415.558.6377

BUSINESS DESCRIPTION

Red and White Fleet is the city's oldest and largest operator of sightseeing cruises of San Francisco Bay. Originally founded as a cargo company in 1892 by entrepreneur, Thomas Crowley, the maritime business went on to become a global success, earning it the motto, "Anything, Anywhere, Anytime on Water." From tug, launch, and barge services to oil spill cleanups, Crowley's ever-expanding enterprise played important roles in numerous historical events. During the 1906 Earthquake and Fire, Crowley's boats ushered San Franciscans to safety across the bay; they supported war efforts during both WWI and WWII; and they provided free transportation to some 15,000 commuters following the 1989 Loma Prieta Earthquake.

Its maritime tours date to the 1915 World's Fair, the Panama Pacific International Exposition, when the business offered its first sightseeing cruise of the San Francisco Bay. During the 1939 Golden State International Exposition held on Treasure Island, it again offered sightseeing tours, this time of the newly constructed Golden Gate and Bay bridges, launching the company's signature Golden Gate Bay Cruise that is still popular today. Red and White Fleet's sightseeing tours from Fisherman's Wharf were in full swing by the 1940s. In 1973, Red and White Fleet provided ferry service to the newly debuted Alcatraz Island National Park.

Today, Red and White Fleet is owned and operated by Crowley's grandson, Tom Crowley Escher, who purchased the business from its parent corporation, Crowley Maritime Corporation, in 1997. Red and White Fleet continues to offer boat tours from Pier 43 ¹/₂ in 16 different languages. Its commitment to the community and to the environment is demonstrated through its partnership with the Inlandboatman's Union (an ILWU affiliate), its participation in nonprofit and City-sponsored employment programs, its movement to adopt the Bay Area's first biodiesel-powered ferry boats, and its work with Sandia National Laboratories to create the first high-speed hydrogen fuel cell passenger ferry and hydrogen refueling station.

STAFF ANALYSIS

Review Criteria

1. When was business founded?

1892.

2. Does the business qualify for listing on the Legacy Business Registry? If so, how?

Yes, Red and White Fleet qualifies for listing on the Legacy Business Registry because it meets all of the eligibility Criteria:

- i. Red and White Fleet has operated for 125 years.
- ii. Red and White Fleet has contributed to the identity of Fisherman's Wharf and to the city's maritime history through its sight-seeing tours of San Francisco Bay and its ferry service to residents and visitors.
- iii. Red and White Fleet is committed to maintaining the physical features or traditions that define its tradition of offering maritime tours and ferry services to residents and visitors.
- 3. Is the business associated with a culturally significant art/craft/cuisine/tradition?

The business is associated with the maritime traditions of San Francisco's Fisherman's Wharf area.

4. Is the business or its building associated with significant events, persons, and/or architecture?

Pier 43 ½ is considered a "Category A Property," denoting a historic resource. It is a contributor to the National Register-listed Port of San Francisco Embarcadero Historic District.

5. Is the property associated with the business listed on a local, state, or federal historic resource registry?

Yes, it is a contributor to the National Register-listed Port of San Francisco Embarcadero Historic District.

6. Is the business mentioned in a local historic context statement?

No.

7. Has the business been cited in published literature, newspapers, journals, etc.?

Yes. Red & White Fleet has been cited in numerous publications including but not limited to: Arcadia Publishing, 2006, <u>San Francisco's Fisherman's Wharf</u>, by Alessandro Bacari Jr.; Regional Oral History Office, Bancroft Library/University of California Berkeley, 1967, "Recollections of the San Francisco Waterfront: Thomas Crowley," an oral history interview conducted by Karl Kortum and Willa Klug Baum; Bancroft Oral History Office, University of California Berkeley, 1973-1975, "Crowley Maritime Corporation: San Francisco Bay Tugboats to International Transportation Fleet," San Francisco Bay Maritime History Series, oral history interview of Thomas B. Crowley conducted by Miriam Feingold Stein; Biodiesel Magazine, 6/14/11, "Biodiesel Sets Sail," by Bryan Simms; Phys.org, 8/1/15, "Red and white fleet going green"; San Francisco Examiner, 8/15/16, "SF Port may locate hydrogen fueling station at Pier 54," by Joshua Sabatini; Phys.org, 10/6/16, "Hydrogen-powered passenger ferry in San Francisco Bay is possible, study says; Ship & Bunker, 10/11/16, "More Details Revealed on San Francisco Hydrogen Ferry, Bunkering Plans"; WorkBoat, 2/13/17, "All American to build hybrid-electric passenger ferry," by Ken Hocke.

Physical Features or Traditions that Define the Business

Location(s) associated with the business:

• Pier 43 ¹/₂

Recommended by Applicant

- Business name of "Red and White Fleet"
- Ferry services and maritime sightseeing cruises, offered in multiple languages
- Signature red & white colors of the company's vessels
- Fisherman's Wharf location
- Iconic "tripod" sign at its box office location at Pier 43 ¹/₂
- Commitment to using environmentally sustainable practices

Additional Recommended by Staff

No additional recommendations

Filing Date:	February 15, 2017
Case No.:	2017-002437LBR
Business Name:	Ruby Sailing
Business Address:	1129 Folsom Street
Zoning:	NCT (Folsom Street Neighborhood Commercial Transit)/
	65-X Height and Bulk District
Block/Lot:	3755/009
Applicant:	Joshua Pryor, Owner/Operator/Captain
	1129 Folsom Street
	San Francisco, CA 94103
Nominated By:	Supervisor Jane Kim, District 6
Staff Contact:	Desiree Smith - (415) 575-9093
	desiree.smith@sfgov.org
Reviewed By:	Tim Frye – (415) 575-6822
	tim.frye @sfgov.org

BUSINESS DESCRIPTION

Since 1981, Ruby Sailing has offered private and public sailing cruises of San Francisco Bay for residents and visitors. Its namesake boat, Ruby, was the first to secure a Coast Guard Certificate of Inspection, enabling the company to offer sailing trips to large groups (up to 30 people per sailing trip). Ruby continues to host lunch and dinner cruises, school science trips, whale watching adventures, and private parties that feature views of iconic Bay Area sites like the Bay Bridge, Fisherman's Wharf, and Alcatraz. As a member of the Master Mariners Benevolent Association, Ruby Sailing is a regular participant in the association's regattas for historic sailing vessels. The business takes pride in its local crew and "down to earth" policies and practices; it relies principally on word of mouth for advertising and does not require deposits for private tours.

The business revolves around its only sailboat, Ruby, which was designed and constructed by Joshua Pryer beginning in 1975. Pryer was first introduced to sailing as a child by his grandfather and realized his passion for the sport as an adult while shooting a documentary film set on a sail boat bound for the Caribbean and South America. A graduate from the San Francisco Art Institute with a degree in sculpture, Pryer constructed Ruby using industrial techniques and materials including steel. The sailboat displays a number of international influences, including a classic, double-ended sloop design characteristic of northern European sailboats and the Colombian *canoa*, as well as Caribbean-inspired blue, yellow, and green stripes on its hull. Ruby's primary exterior colors are black, grey, and white, while the interior features a handcrafted mahogany cabin, also constructed by Pryor. Ruby was the winner of the famed 1982 Doublehanded Farallones Race, earning the boat a positive reputation for impeccable quality of construction and safety.

Ruby was originally docked at China Basin and Mission Creek until the dock was destroyed by fire in 1991. Since then, it has docked from the city's only remaining boatyard, San Francisco Boatworks, located in Central Basin only a half mile away from Ruby's original docking point. Ruby Sailing's office operates out of 1129 Folsom Street, a two-story reinforced concrete industrial building that displays a neon sign in the window and its logo on the door. Sailing out of the city's southern waterfront for 39 years, Ruby continues to maintain a regular presence on the San Francisco Bay. Ruby Sailing represents the tradition

of boat building and has been an important contributor to small boat commerce activity in the city. Pryor, who has continually operated the business since its founding in 1975, hopes to eventually pass on Ruby Sailing to a younger sailor.

STAFF ANALYSIS

Review Criteria

8. When was business founded?

1975. The business' namesake vessel, Ruby, began offering chartered boat rides in 1981.

9. Does the business qualify for listing on the Legacy Business Registry? If so, how?

Yes, Ruby Sailing qualifies for listing on the Legacy Business Registry because it meets all of the eligibility Criteria:

- i. Ruby Sailing has operated for 42 years.
- ii. Ruby Sailing has contributed to the history and identity of San Francisco's southern waterfront by continuously offering chartered sailboat rides of San Francisco Bay, docking from China Basin. The business is centered on the one-of-a-kind sailboat, Ruby, specially-designed and handcrafted by Joshua Pryor. This small, local business has contributed to the waterfront commerce that is characteristic of the city's southern waterfront.
- iii. Ruby Sailing is committed to maintaining the physical features or traditions that define its practice of operating a small watercraft and offering chartered tours of the San Francisco Bay to city residents and visitors.
- 10. Is the business associated with a culturally significant art/craft/cuisine/tradition?

The business is associated with small watercraft design and construction, the art of sailing, and tradition of maritime commerce on San Francisco's southern waterfront.

11. Is the business or its building associated with significant events, persons, and/or architecture?

The property at 1129 Folsom was identified to be a "Category C Property" through the South of Market Area Historic Resource Survey and is not considered a historic resource based on its architecture.

12. Is the property associated with the business listed on a local, state, or federal historic resource registry?

No.

13. Is the business mentioned in a local historic context statement?

No.

14. Has the business been cited in published literature, newspapers, journals, etc.?

Yes. Ruby Sailing has been cited in numerous publications including but not limited to: The Herald, 4/6/1982, "Experienced sailor pitches the bay to visitors," by Diane Daniel; San Francisco Examiner, 1984, "Out to Lunch: Sea Change," by Bea Pixa; San Francisco Examiner, 8/15/1985,

"The flip side of ship parade: 'Like tanks in Golden Gate Park'" by Warren Hinckle; San Francisco Chronicle, 6/17/1994, "The Best Lunches on the Bay: Having lunch on a boat is also a feast for the eyes," by Jerry Carroll.

Physical Features or Traditions that Define the Business

Location(s) associated with the business:

• 1129 Folsom Street

Recommended by Applicant

- Maintenance and use of its namesake sailboat, Ruby
- Practice of docking out of the city's southern waterfront
- Offering of public and private yacht tours of San Francisco Bay
- Tradition of serving San Francisco-based food items and beverages aboard the sailboat

Additional Recommended by Staff

• Logo featuring an image of the face of a sea captain framed by a helm, as well as the company name and motto, "The Best of San Francisco"

PROJECT DESCRIPTION

The Applicant has been nominated as a "Legacy Business" by a member of the Board of Supervisors or the Mayor.

OTHER ACTIONS REQUIRED

Per Administrative Code Section 2A.242, the subject nomination requires review and approval by the Small Business Commission at a public hearing in order to be added to the Legacy Business Registry.

PUBLIC/NEIGHBORHOOD INPUT

To date, the Department has received no letters of support for either Legacy Business application included in this packet.

ENVIRONMENTAL REVIEW STATUS

Nomination to the Legacy Business Registry does not constitute a "project" requiring environmental review per the California Environmental Quality Act (CEQA). The nomination act would not result in any physical alteration to the subject property and could not have an effect on the environment.

PLANNING DEPARTMENT RECOMMENDATION

Staff recommends that the Historic Preservation Commission find that Red and White Fleet and Ruby Sailing qualify for the Legacy Business Registry under Administrative Code Section 2A.242(b)(2) and recommends safeguarding of the above listed physical features and traditions as amended by Staff.

ATTACHMENTS

Draft Resolution Legacy Business Application

DS: XXXX



Historic Preservation Commission Draft Resolution

HEARING DATE MARCH 15, 2017

Filing Date:	February 15, 2017
Case No.:	2017-002434LBR
Business Name:	Red and White Fleet
Business Address:	Pier 43 ½, Fisherman's Wharf
Zoning:	C-2 (Community Business)/
	40-X Height and Bulk District
Block/Lot:	9900/043H
Applicant:	Thomas Crowley Escher, President
	Pier 43 ½, Fisherman's Wharf
	San Francisco, CA 94133
Nominated By:	Supervisor Aaron Peskin, District 3
Staff Contact:	Desiree Smith - (415) 575-9093
	desiree.smith@sfgov.org
Reviewed By:	Tim Frye – (415) 575-6822
	tim.frye @sfgov.org

1650 Mission St. Suite 400 San Francisco, CA 94103-2479

Reception: 415.558.6378

Fax: 415.558.6409

Planning Information: **415.558.6377**

ADOPTING FINDINGS RECOMMENDING TO THE SMALL BUSINESS COMMISSION APPROVAL OF THE LEGACY BUSINESS REGISTRY NOMINATION FOR RED AND WHITE FLEET, CURRENTLY LOCATED AT PIER 43 ½, FISHERMAN'S WHARF (BLOCK/LOT 9900/043H).

WHEREAS, in accordance with Administrative Code Section 2A.242, the Office of Small Business maintains a registry of Legacy Businesses in San Francisco (the "Registry") to recognize that longstanding, community-serving businesses can be valuable cultural assets of the City and to be a tool for providing educational and promotional assistance to Legacy Businesses to encourage their continued viability and success; and

WHEREAS, the subject business has operated in San Francisco for 30 or more years, with no break in San Francisco operations exceeding two years; and

WHEREAS, the subject business has contributed to San Francisco's maritime history and the identity of San Francisco's Fisherman's Wharf; and

WHEREAS, the subject business is committed to maintaining the physical features and traditions that define the business; and

WHEREAS, at a duly noticed public hearing held on March 15, 2017, the Historic Preservation Commission reviewed documents, correspondence and heard oral testimony on the Legacy Business Registry nomination.

THEREFORE BE IT RESOLVED that the **Historic Preservation Commission hereby recommends** that Red and White Fleet qualifies for the Legacy Business Registry under Administrative Code Section 2A.242(b)(2) as it has operated for 30 or more years and has continued to contribute to the community.

BE IT FURTHER RESOLVED that the **Historic Preservation Commission hereby** recommends safeguarding of the below listed physical features and traditions for Red and White Fleet:

Location (if applicable)

• Pier 43 ¹/₂, Fisherman's Wharf

Physical Features or Traditions that Define the Business

- Business name of "Red and White Fleet"
- Ferry services and maritime sightseeing cruises, offered in multiple languages
- Signature red & white colors of the company's vessels
- Fisherman's Wharf location
- Iconic "tripod" sign at its box office location at Pier 43 ¹/₂
- Commitment to using environmentally sustainable practices

BE IT FURTHER RESOLVED that the **Historic Preservation Commission's findings and recommendations** are made solely for the purpose of evaluating the subject business's eligibility for the Legacy Business Registry, and the Historic Preservation Commission makes no finding that the subject property or any of its features constitutes a historical resource pursuant to CEQA Guidelines Section 15064.5(a).

BE IT FURTHER RESOLVED that the **Historic Preservation Commission hereby directs** its Commission Secretary to transmit this Resolution and other pertinent materials in the case file 2017-002434LBR to the Office of Small Business.

I hereby certify that the foregoing Resolution was ADOPTED by the Historic Preservation Commission on March 15, 2017.

Jonas P. Ionin Commission Secretary

AYES:

NOES:

ABSENT:

ADOPTED:



Historic Preservation Commission Draft Resolution

HEARING DATE MARCH 15, 2017

Filing Date:	February 15, 2017
Case No.:	2017-002437LBR
Business Name:	Ruby Sailing
Business Address:	1129 Folsom Street
Zoning:	NCT (Folsom Street Neighborhood Commercial Transit)/
	65-X Height and Bulk District
Block/Lot:	3755/009
Applicant:	Joshua Pryor, Owner/Operator/Captain
	1129 Folsom Street
	San Francisco, CA 94103
Nominated By:	Supervisor Jane Kim, District 6
Staff Contact:	Desiree Smith - (415) 575-9093
	desiree.smith@sfgov.org
Reviewed By:	Tim Frye – (415) 575-6822
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Planning Information: **415.558.6377**

ADOPTING FINDINGS RECOMMENDING TO THE SMALL BUSINESS COMMISSION APPROVAL OF THE LEGACY BUSINESS REGISTRY NOMINATION FOR RUBY SAILING, CURRENTLY LOCATED AT PIER 1129 FOLSOM STREET (BLOCK/LOT 3755/009).

WHEREAS, in accordance with Administrative Code Section 2A.242, the Office of Small Business maintains a registry of Legacy Businesses in San Francisco (the "Registry") to recognize that longstanding, community-serving businesses can be valuable cultural assets of the City and to be a tool for providing educational and promotional assistance to Legacy Businesses to encourage their continued viability and success; and

WHEREAS, the subject business has operated in San Francisco for 30 or more years, with no break in San Francisco operations exceeding two years; and

WHEREAS, the subject business has contributed to the history and identity of San Francisco's southern waterfront; and

WHEREAS, the subject business is committed to maintaining the physical features and traditions that define the business; and

WHEREAS, at a duly noticed public hearing held on March 15, 2017, the Historic Preservation Commission reviewed documents, correspondence and heard oral testimony on the Legacy Business Registry nomination.

THEREFORE BE IT RESOLVED that the **Historic Preservation Commission hereby recommends** that Ruby Sailing qualifies for the Legacy Business Registry under Administrative Code Section 2A.242(b)(2) as it has operated for 30 or more years and has continued to contribute to the community.

BE IT FURTHER RESOLVED that the **Historic Preservation Commission hereby** recommends safeguarding of the below listed physical features and traditions for Ruby Sailing:

Location (if applicable)

• 1129 Folsom Street

Physical Features or Traditions that Define the Business

- *Maintenance and use of its namesake sailboat, Ruby*
- Practice of docking out of the city's southern waterfront
- Offering of public and private yacht tours of San Francisco Bay
- Tradition of serving San Francisco-based food items and beverages onboard the sailboat
- Logo featuring an image of the face of a sea captain framed by a helm, as well as the company name and motto, "The Best of San Francisco"

BE IT FURTHER RESOLVED that the **Historic Preservation Commission's findings and recommendations** are made solely for the purpose of evaluating the subject business's eligibility for the Legacy Business Registry, and the Historic Preservation Commission makes no finding that the subject property or any of its features constitutes a historical resource pursuant to CEQA Guidelines Section 15064.5(a).

BE IT FURTHER RESOLVED that the **Historic Preservation Commission hereby directs** its Commission Secretary to transmit this Resolution and other pertinent materials in the case file 2017-002437LBR to the Office of Small Business.

I hereby certify that the foregoing Resolution was ADOPTED by the Historic Preservation Commission on March 15, 2017.

Jonas P. Ionin Commission Secretary

AYES:

NOES:

ABSENT:

ADOPTED:



Registry

Legacy Application Review Sheet

Application No.: Business Name: Business Address: District: Applicant: Nomination Date: Nominated By:

LBR-2016-17-070 Red and White Fleet Pier 43 ½. Fisherman's Wharf District 3 Thomas Crowley Escher, President February 6, 2017 Supervisor Aaron Peskin

CRITERION 1: Has the applicant has operated in San Francisco for 30 or more years, with no break in San Francisco operations exceeding two years? X Yes No

Meiggs Wharf Area / 43 ½ Fisherman's Wharf from 1892 to Present (125 years)

CRITERION 2: Has the applicant contributed	to the neighl	borhood	I's history and/or the identity of a
particular neighborhood or community?	Х	_Yes	No

CRITERION 3: Is the applicant committed to maintaining the physical features or traditions that define the business, including craft, culinary, or art forms? X Yes No

NOTES: NA

DELIVERY DATE TO HPC: February 15, 2017

Richard Kurylo Manager, Legacy Business Program



Member, Board of Supervisors District 3



City and County of San Francisco

AARON PESKIN 佩斯金 市參事

February 6, 2017

Director Regina Dick-Endrizzi San Francisco Office of Small Business City Hall, Room 110 1 Dr. Carlton B. Goodlett Place San Francisco, CA 94102

Dear Director Dick-Endrizzi:

It is my honor and privilege to nominate the Red and White Fleet for inclusion on the Legacy Business Registry.

The Red and White Fleet was founded as a cargo company in 1892 by seventeen-year-old Thomas Crowley. Since the first boat tour during the 1915 World's Fair, the Red and White Fleet has introduced generations of tourists and San Franciscans to the Bay's sights and history. The company provides tours in 16 languages, making it accessible to people from all over the world. The Red and White Fleet gives every passenger the incredible experience of navigating one of the world's most unique and distinctive bodies of water, while simultaneously being a vibrant historic site in and of itself.

I hope for the continued success and growth of this business. It is essential to the culture and spirit of Fisherman's Wharf, District 3 and the City of San Francisco.

Sincerely,

Aaron Peskin

Section One:

Business / Applicant Information. Provide the following information:

- The name, mailing address, and other contact information of the business;
- The name of the person who owns the business. For businesses with multiple owners, identify the person(s) with the highest ownership stake in the business;
- The name, title, and contact information of the applicant;
- The business's San Francisco Business Account Number and entity number with the Secretary of State, if applicable.

NAME OF BUSINESS:				
Red and White Fleet				
BUSINESS OWNER(S) (identify the pers	on(s) with the highest ownership	p stake in	the business)	
Thomas C. Escher				
CURRENT BUSINESS ADDRESS: TELEPHONE:			IONE:	
Pier 43 1/2 Embarcadero		((415) 901-5249		
San Francisco, CA 94133		EMAIL:		
		tescher@redandwhite.com		
WEBSITE:	FACEBOOK PAGE:		YELP PAGE	
www.redandwhite.com	https://www.facebook.com/reda	ndwhite/		

APPLICANT'S NAME			
Thomas Crowley Escher		~	Same as Business
APPLICANT'S TITLE			
President			
APPLICANT'S ADDRESS:	TELEPHONE:		
2643 Union Street	(415) 901-52	249	9
San Francisco, CA 94123	EMAIL:		
	tescher@r	eda	andwhite.com

SAN FRANCISCO BUSINESS ACCOUNT NUMBER:	SECRETARY OF STATE ENTITY NUMBER (if applicable):
94-326724	

OFFICIAL USE: Completed by OSB Staff	
NAME OF NOMINATOR:	DATE OF NOMINATION:

I

Section Two:

Business Location(s).

List the business address of the original San Francisco location, the start date of business, and the dates of operation at the original location. Check the box indicating whether the original location of the business in San Francisco is the founding location of the business. If the business moved from its original location and has had additional addresses in San Francisco, identify all other addresses and the dates of operation at each address. For businesses with more than one location, list the additional locations in section three of the narrative.

ORIGINAL SAN FRANCISCO ADDRESS:	ZIP CODE:	START DATE OF BUSINESS
Meiggs Wharf Area	94133	1892
IS THIS LOCATION THE FOUNDING LOCATION OF THE BUSINESS?	DATES OF OPE	RATION AT THIS LOCATON
🗌 No 🔳 Yes		
OTHER ADDRESSES (if applicable):	ZIP CODE:	DATES OF OPERATION
Dier 42 1/2 Eichermen's Wherf	94133	^{Start:} 1892
Pier 43 1/2, Fisherman's Wharf	94155	^{End:} Current
OTHER ADDRESSES (if applicable):	ZIP CODE:	DATES OF OPERATION
		Start:
		End:
OTHER ADDRESSES (if applicable):	ZIP CODE:	DATES OF OPERATION
		Start:

OTHER ADDRESSES (if applicable):	ZIP CODE:	DATES OF OPERATION
		Start:
		End:

OTHER ADDRESSES (if applicable):	ZIP CODE:	DATES OF OPERATION
		Start:
		End:

OTHER ADDRESSES (if applicable):	ZIP CODE:	DATES OF OPERATION
		Start:
		End:

End:

Section Three:

Disclosure Statement.

San Francisco Taxes, Business Registration, Licenses, Labor Laws and Public Information Release.

This section is verification that all San Francisco taxes, business registration, and licenses are current and complete, and there are no current violations of San Francisco labor laws. This information will be verified and a business deemed not current in with all San Francisco taxes, business registration, and licenses, or has current violations of San Francisco labor laws, will not be eligible to apply for the Business Assistance Grant.

In addition, we are required to inform you that all information provided in the application will become subject to disclosure under the California Public Records Act.

Please read the following statements and check each to indicate that you agree with the statement. Then sign below in the space provided.

I am authorized to submit this application on behalf of the business.

I attest that the business is current on all of its San Francisco tax obligations.

I attest that the business's business registration and any applicable regulatory license(s) are current.

I attest that the Office of Labor Standards and Enforcement (OLSE) has not determined that the business is currently in violation of any of the City's labor laws, and that the business does not owe any outstanding penalties or payments ordered by the OLSE.

I understand that documents submitted with this application may be made available to the public for inspection and copying pursuant to the California Public Records Act and San Francisco Sunshine Ordinance.

I hereby acknowledge and authorize that all photographs and images submitted as part of the application may be used by the City without compensation.

I understand that the Small Business Commission may revoke the placement of the business on the Registry if it finds that the business no longer qualifies, and that placement on the Registry does not entitle the business to a grant of City funds.

uchen Thomas C. Escher 1/13/47 Name (Print): Date:

5

V.5- 6/17/2016

RED AND WHITE FLEET Section 4: Written Historical Narrative

CRITERION 1

a. Provide a short history of the business from the date the business opened in San Francisco to the present day, including the ownership history. For businesses with multiple locations, include the history of the original location in San Francisco (including whether it was the business's founding and or headquartered location) and the opening dates and locations of all other locations.

The Red and White Fleet is the original San Francisco tour boat excursion business located at historic Fisherman's Wharf. Founded in 1892, the company has been continually owned and operated by the same San Francisco family providing maritime and recreational transportation services for the cities and ports on San Francisco Bay.



In 1892, 17-year-old Thomas Crowley, using \$80 he had saved, purchased a used 18-foot Whitehall boat. He would row it alone through the waters of the bay, ferrying supplies to anchored ships, providing passenger service for workers and those who needed access to other parts of the bay, and even rowing out to the Farallon Islands to meet incoming ships. As his business grew, Crowley soon added three additional Whitehall boats, serving the

bay 24-hours a day. The business eventually added several larger and faster gas-powered launches.

In the immediate aftermath of the 1906 earthquake, Crowley's boats rescued people and their belongings from the battered streets of San Francisco and transported them across the bay to safety and shelter. They even transported some of the vault deposits for the Bank of Italy --now called the Bank of America-- over to the Berkeley Pier, carrying them hidden in milk cans. One of the launches actually anchored in the middle of the bay, full of securities from several damaged banks to keep them safe from looters and the fires.

The sightseeing business was booming by 1908, driven by the public's interest in visiting several historic battleships docked on the bay such as the USS Oregon. In 1915, the company played a critical role in the Panama Pacific International Exposition held along the city's northern waterfront (today's Marina District) by transporting manpower and equipment to the Exposition and offering bay cruises to visitors of the fair.

In 1939, during the Golden State International Exposition held on Treasure Island, more than 17 million people came to San Francisco to view the magnificence of the newly-completed bridges, many of those people from the water. These tours to the bridges were the origin of the popular Golden Gate Bay Cruise, San Francisco's oldest and longest-running bay cruise.





During World War II, all the vessels were active in the war effort, with Crowley #21 being used by the US Navy to lay a submarine net across the Golden Gate to protect the Bay. By the late 1940s, the company began operating regularly scheduled sightseeing tours from Fisherman's Wharf. The vessels were painted red and white and the name "Red and White Fleet" was formally adopted.

In 1960, Thomas Crowley Escher, grandson of the founder (and the present owner of Red and White Fleet), began working at Red and White Fleet as a sweeper and a mechanic's helper on the vessels. During the 1960s and 70s, the fleet experienced significant expansion, and in 1973 Red and White Fleet supported the newly-opened Alcatraz Island National Park, providing service from the city to the island. By the end of the 1980s, Red and White Fleet was providing ferry service throughout the bay to locations such as Sausalito, Vallejo, and Oakland.

Much like during 1906 earthquake, Red and White Fleet answered the call to aid during the 1989 Loma Prieta earthquake, providing free transportation to help about 15,000 commuters after the collapse of a section of the Bay Bridge stranded them from their homes.

In 1997, Crowley Maritime Corporation, the parent corporation, shed some of its businesses including its Red and White Fleet. Tom Crowley Escher purchased 100% of the Red and White Fleet, becoming the third generation of his family to own and operate the business.

The original "office" was in the Meiggs Wharf area (historic Fisherman's Wharf) and today the company continues in that area at Pier 43 ½. The company's base shipping and passenger services have evolved over 125 years, through earthquakes and two world wars, to meet the changing needs and demands of San Francisco. Today, Mr. Escher continues his family's San Francisco tradition of offering maritime tours and ferry service to residents and visitors from around the world.

b. Describe any circumstances that required the business to cease operations in San Francisco for more than six months?

There is no known period during Red and White Fleet has ceased operations in San Francisco for more than six months.

c. Is the business a family-owned business? If so, give the generational history of the business.

Red and White Fleet is a family owned business.

In 1892, 17-year-old Thomas Crowley purchased a used 18-foot boat using \$80 he had saved. This was the beginning of the company. As his company grew and changed over time, it became known by numerous names:

- Crowley's
- Golden West Tours, Inc.
- Crowley Brothers
- Crowley Launch and Tugboat Company
- Harbor Sightseeing
- Harbor Tours
- Harbor Carriers
- Red and White Fleet, Inc.
- Red and White Ferries, Inc.
- Golden Gate Scenic Steamship Company (DBA)
- Red and White Fleet

The name "Red and White Fleet" has been used officially by the company since the 1940s.

In 1960, Thomas Crowley Escher, grandson of the founder and the present owner, began working at Red and White Fleet as a sweeper and a mechanic's helper on the vessels.

In 1997, Mr. Escher purchased 100% of the Red and White Fleet.

d. Describe the ownership history when the business ownership is not the original owner or a family-owned business.

Not applicable.

e. When the current ownership is not the original owner and has owned the business for less than 30 years, the applicant will need to provide documentation of the existence of the business prior to current ownership to verify it has been in operation for 30+ years. Please use the list of supplemental documents and/or materials as a guide to help demonstrate the existence of the business prior to current ownership.

Not applicable. The current owner has owned the business for more than 30 years.

CRITERION 2

a. Describe the business's contribution to the history and/or identity of the neighborhood, community or San Francisco.

Red and White Fleet has contributed significantly to the history and identity of transportation on San Francisco Bay. It is the original San Francisco tour boat excursion business located at historic Fisherman's Wharf.

The business is presently involved with the Fisherman's Wharf Community Benefit District, Fisherman and Seaman's Memorial Chapel, Maritime Commerce Advisory Committee (Port Committee), Submarine Pampanito, San Francisco Maritime National Park Association, Passenger Vessel Safety, Prevention and Mass Rescue Operations Program, Guardians of the City, Mayors Office of Emergency Services and Society of California Pioneers to name a few. In the past, the business has been active with the San Francisco Museum and Historical Society, Museum of the City of San Francisco and the Fisherman's Wharf Merchants Association.

b. Is the business (or has been) associated with significant events in the neighborhood, the city, or the business industry?

In the aftermath of the 1906 earthquake, Crowley's boats rescued people and their belongings from the streets of San Francisco and transported them across the bay. They also transported vault deposits for the Bank of Italy.

In 1915, for the Panama Pacific International Exposition, the company transported workers and equipment to the Exposition site and offered bay cruises to visitors of the fair.

In 1939, during the Golden State International Exposition, people toured the newly-completed bridges from the water, which was the origin of Red and White Fleet's popular Golden Gate Bay Cruise.

During World War II, all the vessels were active in the war effort.

After the Loma Prieta earthquake in 1989, Red and White Fleet provided free transportation for about 15,000 commuters after the collapse of a section of the Bay Bridge.

c. Has the business ever been referenced in an historical context? Such as in a business trade publication, media, or historical documents?

Historical references to Red and White Fleet are included in this application.

d. Is the business associated with a significant or historical person?

The business is associated with Thomas Crowley who started the business in 1892 at age 17.

e. How does the business demonstrate its commitment to the community?

Red and White Fleet continues to serve the San Francisco community and promote tourism throughout the bay. Some of the efforts include:

- Developing and maintaining a strong, long-term relationship with the Inlandboatman's Union (an ILWU affiliate) to source, recruit, train, and employ qualified individuals and help build the next generation of dedicated workers for all passenger vessel operations on the bay.
- For the last five years, the business has been working with the Chinatown Community Development Center to recruit and employ college-bound recent high school graduates.
- Supporting Mayor Ed Lee's 5th Annual Youth Jobs+ Challenge at the Asian Art Museum in partnership with the United Way, the Office of Economic and Workforce Development, Department of Children and the San Francisco Unified School District.
- Working with the Office of Economic and Workforce Development to fund and select qualified candidates for all open positions.
- Continuing to hire through the Human Services Agency's JOBsNOW! Program, which provides employment to people who are dependent on public assistance and are transitioning back into the workforce.
- Donating complimentary Golden Gate Bay Cruise tickets to numerous non-profit groups such as Laguna Honda Hospital and Rehabilitation Center, North Beach's Madonna Del Luma Celebration, and local Bay Area schools.

A few noteworthy awards for environmental management and stewardship are:

- Multi-year recipient of the Bay Area Air Quality Management District's Carl Moyer Program, surpassing all compliance dates for USEPA tier-rated emission standards and a recognized forerunner with the use of alternative fuels.
- Supported CalRecycle's Waste Reduction Award Program (WRAP) for 14 years receiving an award every year the program was offered (1999-2012).
- Red and White Fleet will begin operating an aluminum-hulled, lithium-ion batteryelectric hybrid vessel in March 2018.
- To continuously improve both environmental operations and the tour boat excursion industry in general, the business is part of a study with Sandia National Laboratories to develop and build *SF-BREEZE*, a zero-pollution hydrogen fuel cell ferry boat.



f. Provide a description of the community the business serves.

After the Golden Gate and Bay Bridges were completed, ferry companies saw a decline business. The company weathered the change by diversifying and offering regularly scheduled sightseeing tours, which were the first of their kind and have operated continuously now for nearly 80 years. Nowadays, as highway congestion continues to increase, water transportation has begun to expand again as an option for commuters.

Red and White Fleet presently carry around 500,000 passengers per year, serving both domestic and international visitors. Because so many of customers are foreign tourists, the business offers each passenger complimentary headphones with narrations in 16 different languages. This type of service acts as a "beacon," attracting a diverse group of people to the Wharf and adding to the vitality of the city.

g. Is the business associated with a culturally significant building/structure/site/object/interior?



The classic "tripod" sign above the box office at Pier 43 ½ is an iconic physical feature that visually defines both Red and White Fleet and the historic Fisherman's Wharf area. The company is currently working with the Port of San Francisco to improve and enhance the business efficiency and beautification of the public experience. This involves adjusting the Pier 43 ½ visitor-serving capacity with new dock floats and redesigning the public queuing and circulation area for both embarking passengers and the general public.

h. How would the community be diminished if the business were to be sold, relocated, shut down, etc.?

If Red and White Fleet were to be closed or shut down, the city would lose one of its oldest continually operating companies --one that has remained owned by the same family throughout its history-- and the only tour company with cruises that sail underneath both bridges and around Alcatraz. Without Red and White's presence at Pier 43 ½, the pattern of

tourism would shift away from the southern end of the Wharf and hurt the neighboring business community that relies on one other for foot traffic. The public would also lose some of the best vantage points possible for numerous special events located on or above the Bay, such as Fourth of July and New Year's fireworks displays and Fleet Week. And with efforts in the development of alternative-fuel vessels, the marine community would lose the "tip of the spear" in environmental sustainability.

CRITERION 3

a. Describe the business and the essential features that define its character.

Presently there are four vessels in the fleet: *Harbor Princess, Harbor Queen, Royal Prince,* and *Zalophus*. Very soon, the company will be adding a new vessel, which when complete will be the largest diesel-electric hybrid passenger ship on San Francisco Bay.

Additionally, the company is currently working with Sandia National Laboratories in partnership with the US Marine Administration, Elliot Bay Design Group, the US Coast Guard, the American Bureau of Shipping, and others to develop a hydrogen fuel cell vessel, *SF-BREEZE*. It will become the world's first high-speed fuel cell vessel in operation.

b. How does the business demonstrate a commitment to maintaining the historical traditions that define the business, and which of these traditions should not be changed in order to retain the businesses historical character? (e.g., business model, goods and services, craft, culinary, or art forms)

The vessels' appearances remain true to the company's name, having been painted with the same colors ever since dedicated sightseeing tours began on the bay. For as long as there have been tour boats operating on the water, there have been red and white tour boats operating on the water.

The company now enters its 125th year of business, but even as it grows and expands to meet new changes and opportunities, they will always be "on the water" offering sightseeing cruises and maintaining a highly-visible presence on Fisherman's Wharf with the iconic sign at the box office location on Pier 43 ½.

c. How has the business demonstrated a commitment to maintaining the special physical features that define the business? Describe any special exterior and interior physical characteristics of the space occupied by the business (e.g. signage, murals, architectural details, neon signs, etc.).

Red and White Fleet is committed to serving the San Francisco community and promoting tourism throughout the bay, maintaining their vessels' appearances, and maintaining the classic "tripod" sign above the box office at Pier 43 ½.











References to Red and White Fleet in an historical context, such as business trade publications, media, and historical documents Regional Oral History Office The Bancroft Library

University of California Berkeley, California

San Francisco Bay Maritime History Series

Thomas B. Crowley

Crowley Maritime Corporation: San Francisco Bay Tugboats to International Transportation Fleet

> An Interview Conducted by Miriam Feingold Stein 1973 - 1975

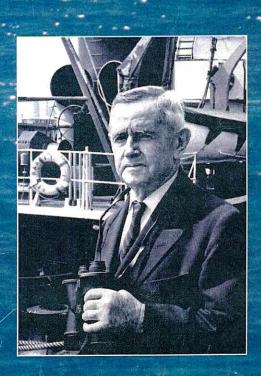
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Recollections of the San Francisco Waterfront; Oral History Transcript | and Related Material, 1965-1967

Thomas Crowley

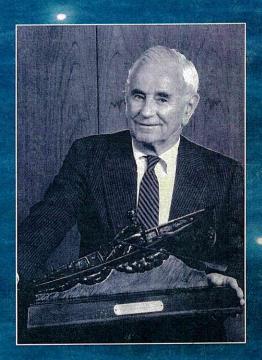
SAN FRANCISCO'S FISHERMAN'S WHARF

ALESSANDRO BACCARI JR.



TWO MEN AT THE HELM

The First 100 Years of Crowley Maritime Corporation 1892-1992



Bancroft Library/Berkeley

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Regional Oral History Office

Thomas Crowley RECOLLECTIONS OF THE SAN FRANCISCO WATERFRONT

> An Interview Conducted by Karl Kortum and Willa Klug Baum

Appendix A STATEMENT OF REFUTATION BY CYRIL MAGNIN

Made to Willa Klug Baum, 1975 Page 282a ff.

> Berkeley 1967

INTERVIEWS ON THE SOCIAL HISTORY OF NORTHERN CALIFORNIA

The Regional Oral History Office was established to tape record autobiographical interviews with persons prominent in recent California history. The following interviews are part of a series sponsored by The Bancroft Library to document the social history of Northern California. Other interview series developed by ROHO---(Art, Photography and Architecture; Books and Printing in the San Francisco Bay Area; University of California History)--may contain additional information on this subject.

First Series

Arnstein, Lawrence	Community Service in California Public Health and Social Welfare. 1964	
Bocqueraz, 'Leon	Finding of the Drake Plate. 1956	
Braden, Amy Steinhart	Child Welfare and Community Service. 1965	
Coggins, Herbert L.	From Horatio Alger to Eugene Debs. 1956	
Farquhar, Francis P.	Accountancy, Mountaineering, and the National Parks. 1960	
Graves, Roy D.	Index to Roy D. Graves Photograph Collection. 1964	
Hornitos, Oldtimers	Life in a Mining Town. 1954	
Mariposa Oldtimers	Mariposa Reminiscences. 1956	
Maytas, Jennie	Jennie Maytas and the ILGWU. 1957	
Norris, Kathleen	An Interview with Kathleen Norris. 1959	
Olney, Mary McLean	Oakland, Berkeley, and the University of California, 1880-1895. 1963	
Richardson, Leon J.	Berkeley Culture, University of California Highlights, and University Extension, 1892-1960. 1962	

Second Series

Crowley, Thomas

Lehman, Benjamin

Recollections of the San Francisco Waterfront. 1967

Recollections and Reminiscences of Life in the Bay Area from 1920 Onward. 1968

Family Reminiscences. 1967

Literary San Francisco. 1965

Levison, Alice Gerstle

Lewis, Oscar

Martinez, Elsie Whitaker

San Francisco Bay Area Writers and Artists. 1964 (Completed, 1968)

McLaughlin, Emma Moffat

Turner, Ethel Duffy

A Life in Community Service. 1968

Writers and Revolutionists. 1967

INTERVIEW HISTORY

Interviewers: Willa K. Baum, head, Regional Oral History Office. Karl Kortum, director, San Francisco Maritime Museum.

> Mr. Kortum was asked to assist as a co-interviewer because of his extensive knowledge of the San Francisco waterfront. During the past twelve years he has interviewed scores of seafaring men and waterfront figures with a view to creating on tape an oral record of the last days of sail as well as the days of steam schooners and the coastwise passenger trade.

Research and Planning:

Recommendations that Tom Crowley be interviewed came from Sam Kagel, Professor of Law, and James D. Hart, Professor of English, University of California at Berkeley, and from James deT. Abajian, librarian, California Historical Society.

Mr. Crowley consented to the interview in May 1963. He asked that before the interviewing begin, Mrs. Baum read over the scrapbooks held at the Crowley Launch and Tugboat Company, Pier 32, and the Red Stacks office, Pier 25, San Francisco. Mrs. Baum spent several days at each location. Mr. Crowley was then working at Pier 32 and would stop by the conference room where she was working to point out interesting items in the scrapbooks.

Captain W. J. Darragh, superintendent of Red Stacks since it became a Crowley business, was very hospitable, offering coffee and advice, and inviting Mrs. Baum to study the tugboat situation at firsthand by taking a ride on a tug. That trip, with Captain Allen Clark at the helm and Robert Barrazi assisting, was a most enjoyable part of the research.

An outline was then submitted to Mr. Crowley. Before starting the interviewing, he further suggested that Mrs. Baum look over several family scrapbooks at his home at 30 Florence Street, and this was done in July 1963. Mr. Crowley's home atop a high hill

affords a panoramic view of the Bay; a pair of powerful binoculars on the coffee table punctuated Captain Darragh's report that at any time one of the many offices of the Crowley enterprises could expect a call from Tom Crowley, Sr., asking just what that Crowley boat was doing out there in the Bay. Mr. Crowley always kept a close eye on all of his operations.

A shortage of funds made it necessary to postpone the interviewing at that time and the work was not continued until fall, 1965.

Time and Setting of Interviews:

Seven interviews were held weekly on Monday afternoons at two o'clock and lasted about two hours each. October 11, October 18, October 25, 1965--Mrs. Baum, interviewer. November 1, November 8, 1965--Mr. Kortum and Mrs. Baum, interviewers. November 23, 1965--Mr. Kortum, interviewer.

All interviews were held in Mr. Crowley's office at 260 California Street. This was one large room, furnished with a very large roll top desk and a conference table and chairs. At the front of the office near the door were the desk, files, and office equipment of the young man who served as Mr. Crowley's assistant, and he was present but engaged in his bookkeeping during all of the interviews. Occasionally one or another old friend from the maritime world would stop in--they seemed to have offices in the same building--to see if Mr. Crowley would accompany them to lunch or to some meeting. Otherwise the only persons present were Mr. Crowley and the interviewers.

Conduct of the Interviews:

About a four-page chronological-topical outline of Mr. Crowley's career was sent to him prior to beginning the interviews. In addition, a letter was sent to him each week setting out in a paragraph or two what the subjects were to be for the up-coming interview.

The interviews did not strictly follow the outline --

one idea led to another. Sometimes different aspects of the same event were discussed at different sessions; when this occurred the two accounts were fitted together in the final manuscript.

Mr. Crowley was very cooperative in the work and obviously enjoyed telling his memories of the old days. Had funds permitted, he would have been willing to spend more time on this enterprise.

In November Mr. Crowley had just been informed that the <u>May Day Pictorial News</u>, a monthly San Francisco maritime publication, was dedicating the December 1965 issue to Tom Crowley, "Dean of the Tugboat Industry," on the occasion of his 90th birthday. Mr. Crowley was very pleased about this and the maritime social events that went along with this honor. A few pages from this Crowley issue are included in the appendix.

Editing:

Transcribing and editing were delayed for two years for financial reasons. In the summer of 1967 Mrs. Baum went over the transcripts, combined repeated stories when necessary, arranged the material in chronological-topical order, and chaptered the manuscript.

The first chapter was sent to Mr. Crowley in September 1967, and subsequently two more chapters. Mr. Crowley looked over the material and made a few additions, but at age 92 he found the work burdensome and asked if someone else could check over the rest.

The manuscript was turned over to Harlan Soeten, curator of the San Francisco Maritime Museum, who went over it and added notes (indicated by H.S.) on points that were unclear. He also checked names of persons and firms where possible.

Mr. Kortum went over the interview he had done alone; he also prepared the introduction.

Willa Baum

15 July 1968 Regional Oral History Office 486 The Bancroft Library University of California at Berkeley

Timeline of Crowley Maritime Corporation

Including Red and White Fleet

1892

- Founder Thomas Crowley purchased one 18-foot Whitehall boat to provide transportation of personnel and stores to ships anchored on San Francisco Bay.
- In a few years, the one Whitehall was joined by two others serving the Bay 24-hours a day.
- In the mid-1890s, the business was incorporated under the name Thomas Crowley and Brothers.
- Crowley purchased his first 36-foot motor launch vessel shortly followed by a second 45foot vessel, then a third 28-footer.
- Within a few years, services broadened to include bay towing and ship-assist services.

1900

- Crowley continued to build new or buy used gasoline launches, expanding both the fleet and the type of work the company could perform.
- The company also acquired and operated small barges to transport steel to Oakland and barrels of oil, ice, and other supplies to ships in the Bay.

1906

- Crowley's fleet played a significant role in ferrying passengers and their belongings out of San Francisco following the great earthquake.
- Operations incorporated under the name Crowley Launch and Tugboat Company. Stockholders were Thomas Crowley and his two half-brothers.

- Crowley expanded into tugboats to tow the scow schooners through the Bay
- Crowley vessels handled the transportation of nitrate from South America and coal transport for government operations.
- Tom Crowley became recognized as an expert in the most efficient ways to handle and transport marine cargoes.
- Crowley purchased tugs of his own and entered competition with Shipowners and Merchants Tugboat Company, operators of the Red Stack tugs.

• With a diverse fleet of vessels, the motto "Anything, Anywhere, Anytime on Water" was adopted.

191**2**

• To manage the growing fleet, Crowley built a marine railway, a dock and a woodworking mill in 1912 and named it Crowley Shipyard.

1913

• Crowley became the general manager of and later purchased the Red Stacks.

1914

• Crowley dedicated personnel and equipment to the Panama Pacific International Exposition.

1915

- Crowley purchased Paradise Park and transported people into the park from their private yachts.
- Crowley acquired several small derrick barges outfitted with A-frames and booms for lifting cargo onto and off lighters.
- During the First World War, the company built and added to its fleet a large, heavy-lift derrick barge which could perform 100-ton lifts.
- During World War I, Crowley raised the laid-up coal barge City of Panama, repaired her and converted her to a five-masted schooner, which was renamed Crowley.
- Crowley began transporting coal and other commodities to Australia and South America.
- Crowley entered a partnership with fellow vessel owner Andrew Mahoney that operated two steam schooners and three steel ships.
- Four 150-foot wooden tugs with steam engines were constructed.

1923

- Crowley expanded into Puget Sound with lighter services and established a tugboat service in San Pedro.
- The Company provided tug, launch and barge services in San Francisco Bay along with heavy-lift and derrick barge services.

1930

• Between 1930 and 1932 three water taxis were constructed.

• Crowley undertook a conversion program to convert from steam to diesel.

1935

• Crowley's shipyard operation became a separate company under the Crowley name.

1937

• Crowley entered a new partnership to perform dredging, marine construction, heavylifting and other derrick barge services in the Los Angeles, Long Beach and San Diego harbors.

1938

- Crowley designed a 148-foot, 7,000 bbl. gasoline barge capable of moving refined bulk petroleum.
- The 7,000 bbl. barge was shortly joined by a 9,000 bbl. barge, and then an 11,000 bbl. barge.

1939

- Crowley won a concession to operate two passenger services from Treasure Island to the newly constructed Golden Gate Bridge.
- Crowley purchased the oil barging equipment from Shell Oil to operate the petroleum transport in both the Bay Area and Southern California.
- Crowley's dry dock and repair company began building ships for the government in support of World War II.

1945

- Crowley began to build and operate terminals to improve the efficiency of petroleumdistribution.
- The first terminal was built at Alviso at the extreme southern end of San Francisco Bay.

- Construction of the company's first sea-going oil barge, Barge 11, was completed in 1947.
- Crowley undertook the first coastal transportation from San Francisco to Coos Bay, Oregon, of bulk petroleum by barge.
- After the war, the Company replaced all of its surviving steam tugs with war surplus diesel equipment.

- Additional surplus vessels were purchased in the late 1940s, such as miki-class wooden hull, 1200-h.p. tugs, and flatdeck and other barges.
- The Company began the tow of the U.S. battleship Oklahoma from Hawaii to Oakland after it was bombed at Pearl Harbor.

• In the early 1950s, Crowley began hauling gasoline southward to Mexico and brought molasses northward on the return trip.

1953

- Crowley Pioneered transportation of railcars loaded with bails of dissolving pulp on a 125-mile water link between railroad tracks at Ward Cove in Ketchikan, Alaska, and Prince Rupert, British Columbia.
- Crowley acquired the Matinolich shipyard in Oakland.

1955

• Crowley initiated its long commitment to arctic transportation with an agreement to resupply the U.S. Government's distant early warning radar and communication system on the Alaska coastline.

1958

- Regular container transportation services to Alaska from the contiguous 48 were initiated.
- Four new steel barges capable of carrying 300 containers were introduced to the fleet along with 600 containers and terminal cranes.
- Crowley completed the first penetration of the Artic by commercial tug and barge.
- Four million board feet of lumber was transported by barge on the West Coast.
- The San Francisco Bay passenger services were expanded between 1954 and 1958.
- In the mid-1950s, Converted barges undertook the hauling of hot (350 degrees) pavinggrade asphalt.

1960

• In the 1960s, Crowley was called on by oil industry officials to help tame the waters of Cook Inlet, Alaska, by rafting tugs together to supply the necessary horsepower to set the oil exploration platforms and furnishing a supply boat and crew boat services.

- Between 1968 and 1970, five new tugs were designed and built with simplified engine rooms to lessen the number of crewmen required from 12 to eight.
- Crowley completed the first Arctic sealift of oil industry cargo around the perimeter of Alaska to Prudhoe Bay.

- Crowley's transport of 187,000 tons of cargo to Prudhoe Bay was the largest commercial sealift in maritime history.
- In May, Crowley initiated services to ferry passengers across the San Pedro channel.

1971

- Crowley expanded oil industry support operations to Singapore to work in the Indonesian oil patch.
- A weekly roll on/roll off freight service between Miami, Florida, and San Juan, Puerto Rico, and from the U.S. Gulf to Puerto Rico was developed.

1973

• The Company continued its support of the oil industry in Alaska as Crowley hauled more of the pipe for the 800-mile pipeline than any other company.

1974

• Jacksonville, Florida, was added as a mainland port of call for cargo bound for San Juan, Puerto Rico.

1975

- Crowley Maritime Corporation was formed.
- Crowley acquired a fleet of all-weather, all-terrain Rolligons, which are vehicles that use large low-pressure rubber air bags to traverse unpacked snow, summer tundra, sand, or marshland initiating the birth of CATCO.
- Personnel were dedicated to salvage and emergency response including oil spill cleanup, dock and vessel booming, design and installation of protective facilities, contingency planning and consulting.

1977

• Aleyska selected Crowley to provide vessel assist and tanker escort services at Valdez for tankers loading crude oil for transport to the mainland states.

• Between 1974 and 1977, 25 Invader-class tugs and nine 450-series petroleum barges were built for the Company.

1978

• The Company developed the world's largest roll-on/roll-off barges for the mainland/Puerto Rico service. By the end of the 1970s, Crowley had become the largest RO/RO carrier in the Caribbean trade operating out of the U.S. Southeast and Gulf.

1980

- New terminals were constructed to handle the new triple-deck barges including those in Lake Charles, Louisiana and Petty's Island near Philadelphia.
- In the early 1980s, Crowley built three ships to bring containerization to the Latin America trade.

1984

• Conversion of five triple deck barges was undertaken in 1984 to stretch the barges from 400-feet to 730-feet increasing the capacity of each vessel by 78 percent.

1985

• Crowley continued its emphasis on services in Alaska by establishing means to store, transport and sell petroleum products from tank farms at Nome, Kotzebue, and Captain's Bay.

1986

• New operating units in 1986 and early in 1987 further internationalized Crowley's marine operations by expanding cargo ship operations to Central America, the entire Caribbean, and both coasts of South America.

1989

• On March 24, when the 987-foot tanker Exxon Valdez went aground, Crowley tugs were first on the scene to take up position alongside the stricken tanker. Crowley was the principle contractor of equipment and personnel to provide marine support for the spill cleanup.

1991

• During the Persian Gulf Crisis in late 1991, Crowley chartered three RO/RO vessels and a tug and water barge to the U.S. Military Sealift Command in support of the United Nations' various military transportation and supply services.

- In March, Crowley was awarded a contract from the Saudi Arabian Government as a prime contractor in the first phase of an environmental cleanup of 450 Kilometers of oil-polluted shores in the Persian Gulf.
- Crowley was the first in the industry to establish a data input program accepted by the Federal Maritime Commission.

 In August, all Crowley companies offering liner cargo and related services to Puerto Rico, the Caribbean, and Central and South America became part of Crowley American Transport, Inc. All other diversified marine contract and logistics services became part of Crowley Marine Services, Inc. Crowley Maritime Corporation operated as a holding company, maintaining full ownership of these two companies.

1994

• Crowley played a leading role in the cleanup of the barge Morris J. Berman's major oil spill off the beaches of San Juan, Puerto Rico.

1994

• Thomas B. Crowley, Jr., was unanimously elected to the position of Chairman of the Board, President and CEO following the passing of his father.

1995

• Crowley formed two joint ventures, Marine Response Alliance (1994) and Clean Pacific (1995) to efficiently provide emergency services according to the requirements of the Oil Pollution Act of 1990.

1997

- Crowley launched a new, weekly Gulf Express service linking Houston with Mexico, Venezuela, Colombia and Panama.
- Crowley became one of the first companies of its kind to launch a website. Within years, the site was made interactive so customers could track their cargo, make bookings, obtain rate quotes, print Internet bills of lading in their own offices applications, etc.
- Crowley Maritime Corporation sold Red & White Fleet passenger ferry services in San Francisco to Thomas Crowley Escher, grandson of the founder Thomas Crowley.

1999

• Crowley sold its South America liner business and the name Crowley American Transport to Hamburg Sud. The remaining liner business was renamed Crowley Liner Services, Inc. • Prince William Sound-class tugs Nanuq and Tan'erliq are designed by Crowley and put to use assisting and escorting tankers in Valdez, Alaska and Prince William Sound. Offering "Best Available Technology" these 153-foot, 10,192-horsepower tugs are among the most powerful and nimble propulsion tugs in the world.

2000

• Three 140-foot, 10,000-horsepower Prevention and Response Tugs (PRTs)--ALERT, AWARE and ATTENTIVE--are delivered for use by Alyeska Pipeline Service Company's Ship Escort/Response Vessel System in Valdez, Alaska.

2001

- Crowley acquired all of the outstanding shares of Marine Transport Corporation, a U.S.flag petroleum and chemical tanker company and folded its business activities into Crowley Petroleum Transportation. Marine Transport Corporation continues to provide ship management services for MARAD.
- On Dec. 16, Crowley made the first licensed commercial cargo delivery directly from the United States to Havana, Cuba in nearly 40 years.

2002

- Crowley acquired Miami-based Speed Cargo Service, a transportation services provider, adding the company to its growing logistics operations.
- Tom Crowley, Jr., was awarded the coveted AOTOS Mariners Award for his lifetime of dedication and commitment to the maritime industry.
- In April, Crowley christens its first Articulated Tug Barge (ATB) the 9,280 HP-tug Sea Reliance and 155,000-barrel barge 550-1. It was the first ATB in a newbuild program consisting of 17 tug-barge combinations spanning more than a decade.

- Crowley expanded its international presence with the formation of Crowley Far East Services in Sakhalin State, Russia, in support of the oil and gas industry there.
- Crowley Online Services debuts as dedicated platform for electronic shipment processing and customer service, powered by GT Nexus software and infrastructure.
- Crowley acquired Apparel Transportation, Inc., a Miami-based apparel transportation services provider.
- Crowley transported more than 400 head of cattle, plus sheep and bison, from the United States to Havana, Cuba, the first shipments of livestock direct from the U.S. via ocean transport in more than 40 years.

• In December, the fourth and final 550-Class ATB is christenined - the 9,280-horsepower tug Coastal Reliance and 155,000-barrel barge 550-4.

2004

 After providing ship assist and tanker escort services in the San Francisco Bay Area from the early 1900s to 1996. Crowley returned its tugs and service to the Bay in the Port of Oakland with two high horsepower tugs--the Tioga (Z drive - 4400 horsepower) and the Sea Robin (twin screw - 5000 horsepower).

2005

- Salvadoran President Antonio Saca and Crowley held opening ceremonies for the company's new 24,500 square-foot distribution center in the Exportsalva Free Zone in El Salvador.
- Crowley acquired marine salvage, wreck removal and emergency response company Titan Maritime, LLC. (Later renamed TITAN Salvage).
- Crowley's port terminal operation in Gulfport, Miss. is flattened by Hurricane Katrina. The company was able to resume vessel service there several weeks later. TITAN Salvage was at the forefront of cleaning up the wreckage in the Gulf after the storm. Titan re-floated about 65 vessels in Louisiana with the use of pneumatic lift bags, linear hydraulic pullers and jack-ups. In addition to the work in Louisiana, Titan is the U.S. Coast Guard's contractor in Mississippi and Alabama and re-floated another 13 vessels.
- Crowley acquired the assets of Yukon Fuel Company, Northland Vessel Leasing and the stock of Service Oil and Gas, Inc. to expand its fuel distribution enterprise throughout Alaska.

2006

- Crowley expands its services in Alaska with acquisition of Columbus Distributing, Inc, a fuel-distribution business.
- Crowley deployed theCrowley Alliance, the company's first Russian flagged and crewed vessel serving the offshore oil industry near Sakhalin Island, Russia. The ship UT 708 design 12,000 BHP AHTS that is Lloyds Ice Class 1A Super has the hull strength and power to break first-year ice up to one-meter (approximately 39.37 inches) thick.
- Crowley christens the first of ten new 185,000-barrel Articulated Tug-Barges (ATBs) the 9,280 HP-tug Pacific Reliance and barge 650-1.

2007

• After about two years as a public reporting company, Crowley once again became a private company on May 5 with the acquisition of all outstanding shares.

• Crowley christened the Marty J, the first of nine heavy-deck-strength 455 Series barges in a newbuild program. Measuring 400 feet by 105 feet, the barges provide both the capacity and deck strength needed to accommodate larger drilling and production units used for deepwater offshore energy exploration and development.

2008

- Crowley satisfies a customer's need for a larger barge, widening the barge 455-3, from 105 feet to 130 feet and renaming her the Julie B.
- Crowley acquires Customized Brokers, a Miami-based company specializing in the customs clearance of fresh produce into the U.S.
- Crowley acquires Seattle-based Jensen Maritime Consultants, a naval architecture and marine engineering firm with more than 45 years experience designing and engineering a variety of different commercial vessels.

2010

- Crowley and TITAN Salvage respond to the devastating Jan. 12 earthquake in Haiti, reestablishing cargo delivery in the port and reopening the port to other government and commercial traffic over a period of several weeks.
- Crowley announces that it would design, build and operate four new Ocean Class tugs by the end of 2012. The new generation of tugs feature 10,880 horsepower and are designed for endurance towing.
- Crowley begins construction of three larger, Jones Act qualified ATB's known as the 750-Class. Each tank barge will have 330,000 bbls capacity and are scheduled for delivery by the end of 2012.
- In August, Titan opens a new salvage base in Australia, further expanding its worldwide presence.

- Crowley and TITAN Salvage continue to respond to the devastating Jan 2012 earthquake in Haiti, reestablishing cargo delivery in the port and reopening the port to other government and commercial traffic over a period of several weeks
- Crowley acquired Houston-based Jarvis International Freight, Inc., a freight forwarding, export packing and logistics company primarily serving the energy, oilfield and mining industries.
- The Vision/650-10, the last of 10 articulated tug barges (ATB's) began transporting petroleum products between U.S. West Coast ports.

- Crowley established a new Houston-based business, under the name solutions, to bundle company-wide capabilities and assets with world-class project management skills to provide complete turnkey marine solutions for customers with multifaceted marine and offshore construction-related projects.
- In November, Crowley christened its largest articulated tug-barge (ATB), the Legacy/750-1, in New Orleans. The barge can carry up to 330,000-barrels of petroleum products.
- Crowley sold its fleet of company-owned CATCO[®] Arctic All-Terrain vehicles and related assets to Peak Oilfield Services Company.

- In April, the tender and removal of the Costa Concordia wreck was awarded to company subsidiary TITAN Salvage and partner Micoperi. The job is reported to be the largest maritime wreck removal project ever undertaken.
- Crowley towed the USS Iowa, a historic, retired Navy battleship from San Francisco to Los Angeles.
- TITAN Salvage was awarded a contract to serve as the commercial marine salvage and engineering support contractor for the Navy.
- In August, Jensen Maritime, a Crowley company, opened its third office in New Orleans.
- Crowley expanded its logistics services to include Less-than-Containerload (LCL) ocean and air cargo lifts along with Customs brokerage services to Cartagena, Colombia.
- Crowley christened the Legend/750-2, the16,000-horsepower tugboat and 330,000 barrel tank barge in Tampa, Fla. The articulated tug-barge (ATB) and will be used to transport petroleum products between the U.S. Gulf and East Coasts.
- In October, Crowley christened the first two ocean class tugboats, the Ocean Wave and the Ocean Wind in New Orleans.
- Crowley merged its Houston-based, freight forwarding, export packing and logistics company, Jarvis International Freight, Inc., into the logistics team.
- In November, the crew of Crowley's tugboat, the Guard, performed a heroic rescue of a man who was struggling to stay afloat in the waters outside of San Francisco Bay.
- In December, TITAN Salvage opened its fourth facility in Cairns, Australia.

2013

• In January, Crowley christened its newest tanker, Florida. The 330,000-barrel vessel was immediately put to work in the U.S. Gulf of Mexico for a major energy customer.

- Also that month, Crowley opened a new cold storage and warehouse facility in Miami. The 24/7 facility, CrowleyFresh, is a joint offering made possible by Crowley and Customized Brokers, and offers multiple humidity and temperature-controlled coolers to store and handle perishables.
- In April, Crowley and Bowhead Transport Company announced a joint venture to provide marine services in the Arctic.
- In May, Crowley entered the liquefied natural gas (LNG) market by acquiring Carib Energy LLC.
- Also that month, Crowley' liner services group added more than 3,000 pieces of equipment. The additional resources allowed the company to better meet increasing customer demand throughout Puerto Rico, the Caribbean and Latin America regions.
- Crowley's Caribbean logistics group began offering regularly scheduled weekly less-thancontainerload (LCL) services to and from San Juan, Puerto Rico, and select countries within Central America in June.
- In June, Crowley subsidiary TITAN Salvage teamed up with T&T Salvage to complete a challenging salvage project to remove a wreck from a Chilean coast.
- In July, Crowley's petroleum distribution group completed the acquisition of Anderes Oil in Ketchikan, Alaska.
- Crowley announced in August that it would expand its fleet of petroleum vessels by building eight product tankers. (Delivery slated between 2015 and the end of 2017)
- In September, Crowley's petroleum distribution group completed the acquisition of Taku Oil Sales in Juneau, Alaska.
- After a grueling year of preparation and engineering ingenuity, in September TITAN successfully parbuckled (raised upright) the Costa Concordia cruise ship.
- Crowley's new ocean class tugboats completed the successful delivery of the offshore oil production and drilling platform Olympus – the largest tension-leg platform ever to be developed for the U.S. Gulf of Mexico – to its deepwater location in the Gulf. The project provided the first opportunity for all four ocean class tugs to work together on a single job.

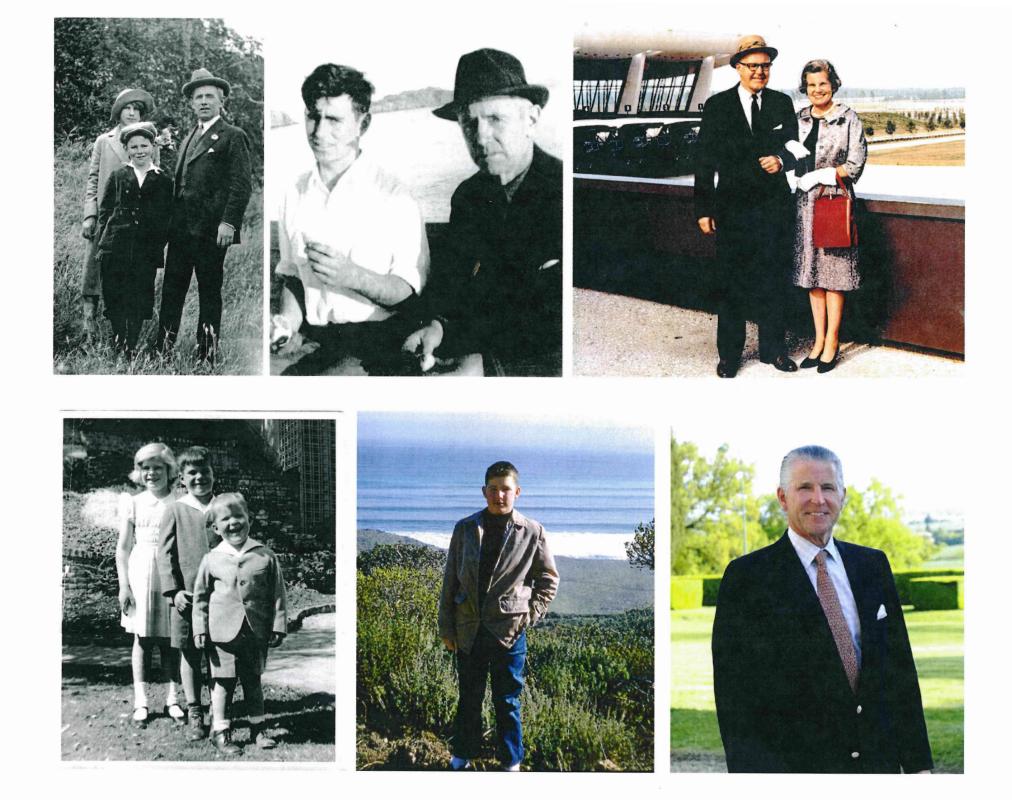
- Ocean class tugs and 455 series high-deck strength barges deliver components for several deepwater gulf production facilities including Jack/St. Malo and Tubular Bells
- Accord Ship Management (HK) Limited and Accord Marine Management Pvt. Ltd. are welcomed through majority ownership acquisition to the Crowley family of companies

- Subsidiary Carib Energy LLC received a 20-year, small-scale U.S. Department of Energy (DOE) export license for the supply, trnsportation and distribution of U.S.-sourced liquefied natural gas (LNG) into Non-Free Trade Agreement (NTFA) countries in the Caribbean, Central and South America.
- Construction began on the first of two liquefied natural gas (LNG)-powered, combination container Roll-On/Roll-Off (ConRo) ships_for use in the South Atlantic Puerto Rico trade
- The third and fourth ocean class tugboats <96> Ocean Sun and Ocean Sky were christened and entered the fleet

- The company joins the fight against Ebola by providing logistics support services for Operation United Assistance (OUA), in West Africa.
- Crowley Maritime Corp. and Svitzer Salvage merge salvage divisions to create new company Ardent.
- The international and government ship management groups take on new technical management duties for a number of container ships, tankers, MSC marine prepositioning ships the ROCON fleet and the U.S. Navy's T-AGOS/T-AGM fleet.
- Crowley acquires SeaFreight Line, SeaFreight Agencies, and SeaPack to expand its liner and logistics services in the Caribbean Basin.
- \$48.5-million construction project for a new pier at its Isla Grande Terminal in San Juan, Puerto Rico begins.
- The first two of four, new LNG-Ready Jones Act product tankers join the petroleum fleet after construction at Philly Shipyard, Inc.
- After two years of careful planning, engineering and preparation, Crowley's marine solutions team, with nearly 300 on-site workers and 20 support vessels, completed the successful installation of customer Furie's Kitchen Lights natural gas production platform and underwater pipeline in Cook Inlet, Alaska.

- Crowley welcomes four more newly built, LNG-ready product tankers to its petroleum and chemical distribution fleet.
- Ace Fuels in Alaska joins the Crowley family.

- The government services group towed the ex-USS Taylor from Philadelphia to Charleston for conversion prior to delivery to the Taiwanese government as part of the U.S. foreign military sales program.
- \$21 million worth of improvements and upgrades to the Isla Grande port terminal in San Juan got underway.
- The company was awarded a contract to supply commercial LNG to Molinos de Puerto Rico, the Caribbean arm of Ardent Mills LLC.









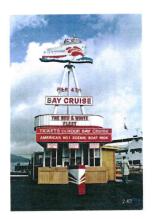










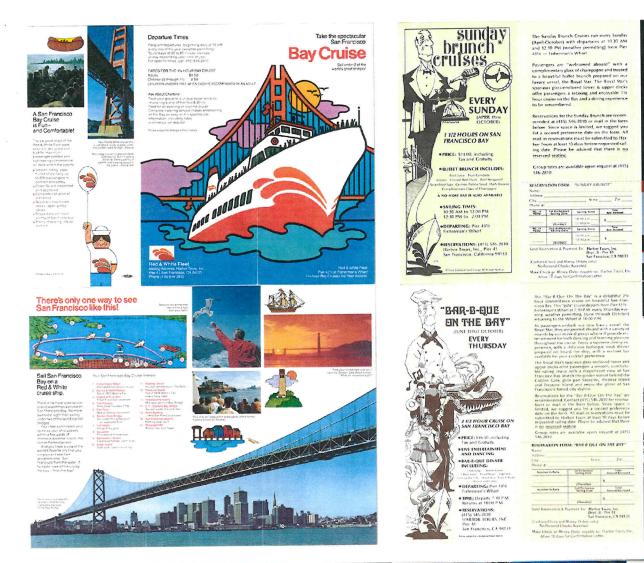






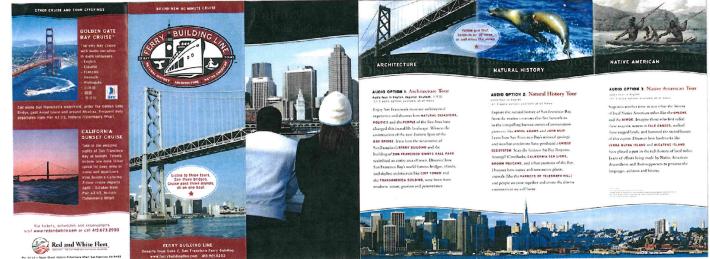












mark wher, San P



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May 6, 1939

Dear Mr. Bill Jones:

A few weeks ago, probably because I am a publisher, you mailed me two complimentary tickets for your exposition boat rides. I am sure you did not realize at the time that while so many of my ancestors were printers I therefore think printer's ink the grandest smell in the world, it is also true many of my progentors were seafaring men and the smell of the sea is a good runner-up for my favor.

The result was that I enjoyed my trip around Alcatraz last Sunday tremendously and felt terribly sorry your patronage was so poor. To make some effort to correct this injustice of society toward you I gave you something yesterday money can not buy, an advertisement on the top of page one of my publication. It will get some results for already one subscriber has phoned to ask what "small stipend" meant and remarked that 50¢ was small indeed and regretted better publicity had not caused said subscriber to patronize you sconer than this afternoon.

I shall return again to your port of embarkation and while I am not exactly asking for them, two complimentaries for that speed boat around the island may work the same publicity "magic" your first two did. There is no more stiff-necked editor in existence on barring free publicity but every man has his Achilles' heel and my love of a boat ride is what puts me at your mercy. But you do give value and I give you the enclosed newspaper gladly.

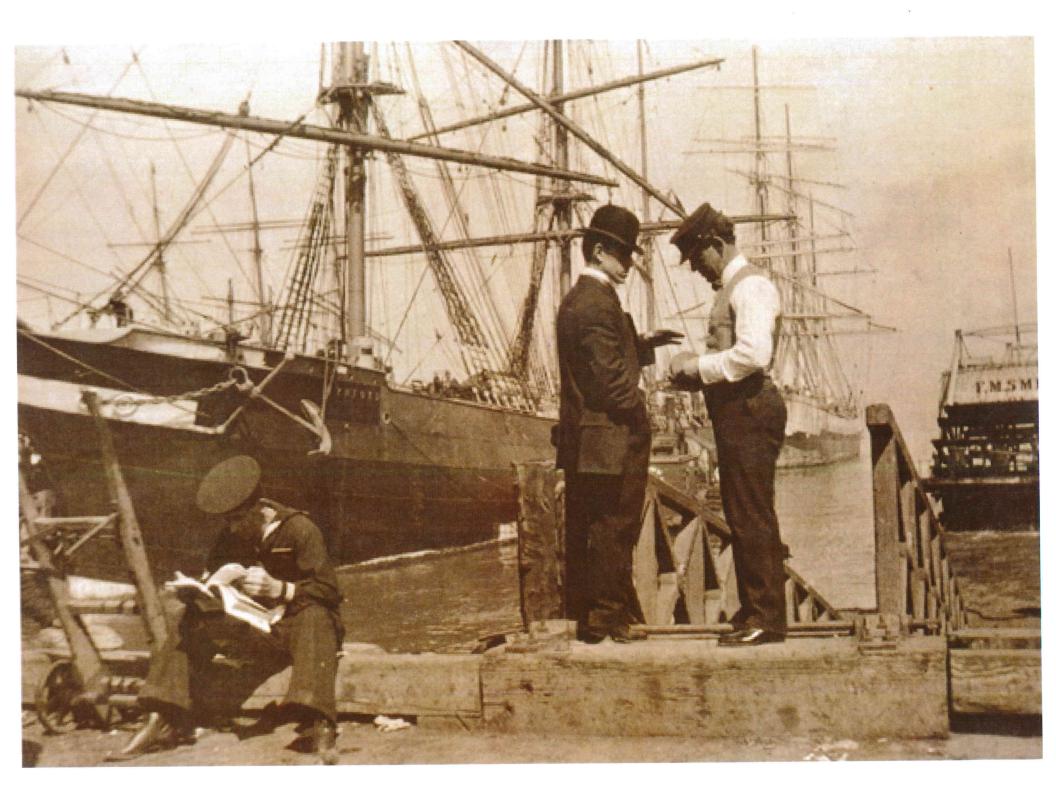
Yours very truly,

sgt/vl

Similain S. Trimble

Sinclair G. Trimble Editor and Publisher













Harbor Sightseer (passenger vessel), underway, San Francisco Bay, Calif., ca. 1948-1951, San Francisco Maritime National Historical Park, P82-019a.1,904pl (SAFR 19106).



Harbor Queen (vessel type unidentified), of the Red and White Fleet, before change in colors, ca. 1950, San Francisco Maritime National Historical Park, A01.30858n (SAFR 21374).



General Frank M. Coxe (built 1922; passenger vessel), docked with passengers boarding, at San Francisco, Calif., ca. 1950, San Francisco Maritime National Historical Park, San Francisco Chronicle collection, A02.14049n (SAFR 21374).

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Harbor Queen (passenger vessel), at dock, underway, San Francisco Bay, Calif., ca. 1952-1962, San Francisco Maritime National Historical Park, P82-019a.1,897pl (SAFR 19106).

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BIODIESEL ON BOARD: Family-owned Red and White Fleet

has been using B20 in its passenger vessels without incident

By Bryan Sims | June 14, 2011

Encountering red tape isn't new for alternative fuels such as biodiesel on their journey to acceptance as viable, on-road fuel. The same could be said for its off-road applications, specifically in maritime use. Perhaps no one understands the trials and tribulations of biodiesel better than Randall von Wedel who, in the early 1990s, was instrumental in helping biodiesel become accepted by boaters in the San Francisco Bay area.

Recognizing biodiesel's inherently higherquality air and water characteristics, von Wedel, a principal scientist at CytoCulture International and avid boating enthusiast, recalls a pivotal point in California where he saw an opening for marine operators to—by increasing their use of

biodiesel-enhance performance in marine

engines and reduce their carbon footprint. In 1993, the California Air Resource Board mandated that all high-sulfur No. 2 off-road diesel fuel be switched to what was called lowsulfur, low-aromatic, which inevitably forced oil companies to lower levels of aromatic compounds, such as benzene, in the fuel, von Wedel says. The switch also inevitably caused the gaskets and seals (or elastomers) in boat engines to shrink, he says, because they were designed to swell in the presence of those aromatic compounds found in high-sulfur diesel fuel. Shortly after CARB imposed the switchover, von Wedel and his colleagues published empirical data supporting the fact that biodiesel not only restored lubricity in marine engines, but, because of its solvent properties, allowed the membranes to swell up again. Von Wedel was vindicated.

since 2006.

PHOTO: RED AND WHITE FLEET

"That launched biodiesel in California because there was so much publicity associated with using biodiesel in marine engines then," von Wedel tells Biodiesel Magazine. "We were in the right place, at the right time and with the right fuel. I didn't design it—it just happened."

Since that time, von Wedel's pioneering efforts with biodiesel in the Bay area resonated to other fleet operators and boat owners, such as the Red and White Fleet, which was interested in using biodiesel. As it turned out, Red and White became the first commercial adopter of biodiesel in ferry vessels in the Bay area. Since 2006, family-owned Red and White company has been using a B20 blend in its passenger vessels with no issues directly related to engine operability, according to Joe Burgard, director of operations for Red and White.

"We did have some bacteria growth early on, but we didn't attribute it directly to the biodiesel," Burgard says. "I think early on there was a lot of inconsistency on the quality standards of biodiesel, but since we adopted it there have been no issues."

Not only did ferry fleet operators in the Bay area express immense interest using biodiesel, but it also proliferated northward into Washington. In 2004, the Washington State Department of Transportation's Ferry Division conducted a pilot biodiesel fuel test over a four-month period using a B20 blend of soy biodiesel in three of its vessels. Although the operational issues were challenging, according to Paul Brodeur, director of vessel maintenance, preservation and engineering for the ferries division, the test was successful in that it helped him gather important information that would inspire a 12-month biodiesel pilot study in 2008 using blends of B5, B10 and B20 with ULSD in three of its vessels—the Issaquah, the Klahoya and the



Tillikum. Currently, Brodeur says 15 of the 20 vessels run on a B5 blend, amounting to about 17 million gallons of biodiesel consumed annually.

"When that pilot test concluded in 2009, we went to the state legislature for some funding for ongoing biodiesel use," Brodeur says. "We were later funded at a 5 percent level for the incremental cost of the biodiesel, and that was based on availability."

Today, many marine operators across the country are either exploring the use of or are using biodiesel in their marine engines. For example, the Virginia Port Authority expanded its voluntary program in January of using B5 with ULSD in its diesel-powered machines owned by the VPA's operating company, Virginia International Terminals Inc. Also, the U.S. Navy, the largest consumer of diesel fuel in the country, is studying the long-term feasibility of integrating biodiesel and other renewable forms of biofuel in its fleet of ships to reduce its carbon footprint, NOx and SOx emissions and achieve a sustainable goal of buying domestic product.

Things to Keep in Mind

Several studies have been conducted to find which biodiesel blends interact best with marine engines. Marine engines are equipped to perform efficiently without incident on B5, but issues can occur when blends exceed that amount if the proper precautionary measures aren't met. Two of the prominent issues that arise when ship owners consider using blends above 5 percent include incompatibility with fuel filters, gelling and potential microbial growth in older fuel tanks. Of course, operational deficiencies related to biodiesel greatly depend on the size and duty-cycle of any given ship, Brodeur says.

"We're only burning B5 so the blend ratio is pretty low, so we wouldn't expect to have any issues," Brodeur says. "When we did our pilot testing, we started having filter issues and some gelling issues occurred when we ran on B20, especially in colder weather."

Brodeur recalls suspending the use of biodiesel when his B100 product stored in stainless steel totes began to gel when it was subject to temperatures of 20 degrees Fahrenheit. That was when his team manually blended their product, compared to now where they employ in-line blending systems at their fueling sites. Brodeur advises keeping a close watch on fuel clogging that can occur when B20 is used.

"Operationally, the biggest thing we experienced [with B20] was some premature filter clogging, so you have to stay on top of cleaning out your fuel transfer filters and your fuel purifier," Brodeur says. "Issues like these happen at a much slower rate with B5 or B10."

Another aspect to be mindful of, according to Brodeur, is to actively participate in proper fuel management practices by using additives or biocides to ensure fuel tanks are clean to reduce the fuel-water interface that can often create an environment suitable for microbial growth, commonly known as "diesel bugs."

"If we get an active population of microbial growth, then we'll do a higher dosage to kill them, whether it is diesel fuel or a blended product, then we find ourselves in good shape," Brodeur says. "It's not more or less indicative of whether you have a blended product or not. It's a marine environment where you have variables that can cause microbial growth other than biodiesel, like the tanks that are integral with the hull, varying temperatures, tanks sweat, condensation and so forth."

Stricter Emission Standards Ahead

With more oceangoing vessels in use, and stricter fuel and air emission regulations in both domestic and international waters expected to go into effect in the next few years, biodiesel will play a progressively greater role. This was evidenced when, in October 2008, the member states of the International Maritime Organization agreed to amend the International Convention for the Prevention of Pollution From Ships (MARPOL) Annex VI, adopting new tiers of NOx and fuel sulfur controls. The most stringent of these new emission standards apply to ships operating in designated Emission Control Areas, including the newly-designated North American ECA.

The revised MARPOL states that as of 2015, ship operators that trade in emission control areas will be required to burn fuel with less than 0.1 percent sulfur (1,000 ppm), which will help reduce SOx and particulate matter by more than 85 percent from today's levels, according to the U.S. EPA. The fuel sulfur limit allowable under MARPOL today is 10,000 ppm.

Kevin Reynolds, senior marine engineer for The Glosten Associates Inc., an engineering and consulting firm based in Seattle, authored a report on exhaust gas cleaning systems used in ships for The Ship Operators Cooperative Program, which was released in February in light of the new MARPOL regulations that are set to go into effect. Reynolds says the study was designed to guide ship operators when faced with the dilemma of switching to expensive distillate fuel in ECA or install EGS and continue to burn high-sulfur, heavy fuels. He adds that

the use of biodiesel in conjunction with ULSD is a solid option for ship operators looking for ways to comply with impending sulfur emissions as prescribed by the amended MARPOL requirement.

"Biodiesel in our view is certainly a low-sulfur option," Reynolds says. "The challenge for these large oceangoing ships is that it's going to be very expensive relative to residual fuel."

Reynolds continues, "One of the biggest challenges in switching over to biodiesel is that it essentially scrubs the fossil fuel residue off your storage tanks and it tends to plug your filters, hence making the switchover process fairly painful. There's still some interest in using biodiesel by ship owners, but there needs to be continued pilot projects to get past compatibility issues, along with increased supply, as continually switching between biodiesel and fossil-based fuels could create unwanted incompatibility issues."

As for NOX, the amended MARPOL requirements will mandate that all marine Tier III engines will have to install some form of aftertreatment technology by 2016. Von Wedel admits there while there may be a slight increase in NOx when using biodiesel, it would be eliminated with the utilization of both biodiesel and aftertreatment technology to comply with MARPOL NOx requirements.

"Biodiesel has good potential to assist in the role, but it's going to have to be in conjunction with proper additives or with aftertreatment, which will be very challenging for boats," von Wedel says.

"Boats aren't set up for that and there's no market right now to build equipment to retrofit a boat or ferry to accommodate those stringent standards. But, in principle, it could be done."

If You Build It, They Will Deliver

As biodiesel usage increases by ships near ports and harbors, one might ask: is there an infrastructure at ports to support installation of fuel terminals to meet that demand? The answer is no, especially in the Bay area, according to Kent Bullard, a BQ-9000 consultant and biodiesel quality assurance consultant for Little Rock, Ark.-based biodiesel consulting firm Lee Enterprises Inc.

"There really isn't any access, at least here in Southern California, to biodiesel unless if you're having a fuel company come and service your boat by wet fueling then you can get access to fuel if you order it," Bullard says. "If we could have biodiesel back at Ventura Harbor at the fuel dock, it would start moving again, especially now that biodiesel is becoming price competitive with diesel now."

Bullard cites California's ongoing underground storage issue as one of the main culprits holding down the build-out of an infrastructure at ports for greater access to biodiesel in the state. In 2009, California's Water Resources Board expanded its approval for storing biodiesel blends in underground tanks from the existing B5 limitation to up to B20. A 25-year-old California law requires the storage of any chemical in underground tanks to be tested and independently certified as being compatible with the tank materials, Bullard explains. With only B5 blends having been tested, the water board approved a three-year emergency variance to allow higher blends up to B20 in double-walled tanks and piping that currently meet requirements for petroleum-based fuels.

"You have to provide a letter from all of the tank component manufacturers showing biodiesel compatibility for getting above B5 underground," Bullard says. "Then you can apply for, and hopefully your local authority will grant you, a variance, which could take about a year and a half until you receive approval."

In Washington, Brodeur faces the challenge of trying to get consistent access of biodiesel. Currently, the Washington ferries that traverse the Puget Sound region under Brodeur's watch are all fueled from three different locations. One, he says, is a fuel terminal that delivers blended fuel by boat (also called wet fueling) and the other is equipped with in-line blending capabilities. The third is in the process of having in-line blending equipment installed at the fuel pier in Seattle.

While Brodeur admits that biodiesel is considered a boutique fuel in many port hubs across the country with limited to no state or provincial backing to support the build-out of an infrastructure for more widespread availability, he doesn't have any regrets for taking a chance on using biodiesel during its pilot studies.

"As long as we continue to receive the necessary funding to support the program, I'm committed to moving the fleet forward with higher biodiesel blends, up to B20, because that's what we tested and that's what we know will work," Brodeur says. "Beyond that, I think we would need to go into more of a pilot project if we were considering blends higher than B20. Certainly, B20 is doable and if we're funded to that level, I'm committed to make that happen."

Author: Bryan Sims Associate Editor, Biodiesel Magazine (701) 738-4974 bsims@bbiinternational.com

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Making Trump a biodiesel believer



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Red and white fleet going green

August 1, 2015

When it comes to environmental sustainability, Red and White Fleet president Tom Escher is all in.

"Everyone is talking about reducing emissions by 20 percent, 40 percent or more," he said. "I thought, 'Why not do away with emissions altogether?""

Sandia National Laboratories, which recently signed a cooperative research and development agreement with Red and White Fleet, is helping the San Francisco-based company realize that goal. Named SF-BREEZE (San Francisco Bay Renewable Energy Electric vessel with Zero Emissions), the project aims to design, build and operate a high-speed hydrogen fuel cell passenger ferry and hydrogen refueling station.

Hydrogen fuel cells have several advantages over the diesel engines that power most passenger ferries—no harmful exhaust emissions, higher energy efficiency, quiet operation and no risk of fuel spills. Replacing diesel engines and generators with hydrogen fuel cells could greatly improve air and water quality in harbor areas.

The hydrogen refueling station is planned to be the largest in the world and serve fuel cell electric cars, buses and fleet vehicles in addition to the ferry and other maritime vehicles.

The U.S. Department of Transportation's Maritime Administration (MARAD) is funding a feasibility study to examine the technical, regulatory and economic aspects of the project.

"The Maritime Administration is committed to finding new and efficient technologies for use in the maritime industry that reduce pollution and protect our environment," said Maritime Administrator Paul 'Chip' Jaenichen. "This industry continues moving forward on renewable energy and clean-fuel options, and this project encourages a shift toward lower impact maritime fuels that may further green the waterborne link in our national transportation system."

Sandia is leading the study in partnership with Red and White Fleet, the American Bureau of Shipping, the U.S. Coast Guard and naval architect Elliott Bay Design Group. Other contributors include the California Environmental Protection Agency's Air Resources Board and the Governor's Office of Business and Economic Development.

"We are involving so many stakeholders up front because if the feasibility study shows a 'go' we want to make sure the next phase has a rock-solid foundation," said mechanical engineer Joe Pratt, the Sandia project lead. "We hope that the feasibility study, regardless of the outcome, can be useful to others nationally and around the world who are looking at hydrogen fuel cell vessels as clean energy alternatives."

Boat speed critical to economic viability

Economic viability is essential to the success of SF-BREEZE.

"Rather than a tour boat that would primarily be a demonstration project, Red and White Fleet believes a high-speed passenger ferry makes economic sense," Pratt said. To compete with existing transportation methods—cars, buses, Bay Area Rapid Transit and other ferries—the ferry must be fast. But speed adds complexity.

"If you are trying to achieve speed, boat weight is important," Pratt said. "Fuel cells and hydrogen are heavier than existing diesel engines and fuel, so the question becomes can you build a boat powered by hydrogen fuel cells that is both large and fast enough? The feasibility study will provide that answer."

A preliminary conceptual study shows the answer is probably yes, but it will require a boat specially designed to accommodate hydrogen fuel and the fuel cell technology. A traditional passenger ferry can't easily be retrofitted with a hydrogen fuel cell, so it was essential to include a naval architect in the feasibility study. The ferry design will include collaboration with the American Bureau of Shipping and the Coast Guard to ensure the final design conforms to safety and reliability rules and regulations.

The world's largest hydrogen refueling station

The boat—design, operation, maintenance and fueling—is one part of the equation; the hydrogen refueling station is the other. The high-speed passenger ferry would use about 1,000 kilograms of hydrogen per day. To put this in perspective, an average hydrogen fuel cell car might use less than 5 kilograms of hydrogen per week.

To support the ferry and other potential users, the refueling station would have a capacity of 1,500 kilograms a day—about twice the size of the largest hydrogen refueling station in the world. It would also be the first hydrogen refueling station to simultaneously serve land and marine uses.

The economy of scale could boost the local hydrogen fuel cell marketplace. "A larger station reduces the cost per kilogram of hydrogen," said Pratt. "Higher use will drive down that cost even more."

Reducing the cost of hydrogen refueling could stimulate the market for hydrogen fuel cell cars and accelerate wider adoption of the technology in other vehicle markets, such as heavy-duty trucks and buses. "This project offers an opportunity to closely examine how hydrogen can take its rightful place as a clean, low-carbon fuel for high-volume transportation operations, and also build the business case as part of an innovative application for fuel cells," said Catherine Dunwoody, chief of the Fuel Cell Program at the California Air Resources Board.

Feasibility study will address regulations

SF-BREEZE will enter new regulatory space, both for the high-speed ferry and refueling station. The feasibility study will examine those regulations and their impact on the project.

For the refueling station, Sandia can draw on its technical expertise in developing and optimizing safe, cost-effective vehicular hydrogen fueling stations. The U.S. Department of Energy Fuel Cell Technologies Office funds most of Sandia's efforts in this area. Sandia is a leading partner in two nationwide infrastructure initiatives: H2USA, a private-public partnership focused on advancing hydrogen infrastructure, and the Hydrogen Fueling Infrastructure Research and Station Technology (H2FIRST), a U.S. Department of Energy project established to support H2USA.

"The knowledge, tools and stakeholder resources we've cultivated through these initiatives will directly apply to developing the large, multi-use hydrogen refueling station," said Pratt. "We will work closely with state and local agencies to determine the best location for the refueling station and understand the associated regulations."

Sandia leads the Maritime Fuel Cell project, which is piloting the use of a hydrogen fuel cell to power refrigerated containers on land and on transport barges at the Port of Honolulu.

"Working with the Bureau of Shipping and the Coast Guard, we've explored some of the unique issues related to using a hydrogen fuel cell on a vessel and in the marine environment," said Pratt. "But there is more at stake when the fuel cell is powering the boat, not an auxiliary system, and the boat is carrying passengers."

Vessel design next step

If the feasibility study indicates that SF-BREEZE could succeed technically, economically and within regulations, the next step is to design the vessel. The project will need additional funding, resources and partners, which could come from the federal government, the state of California, investors, industry or private foundations.

Escher joked that if the project ultimately succeeds, it could hurt him financially.

"It will make all of my boats obsolete and I'll have to replace my entire fleet," he said. "But in all seriousness, this is really about preserving the environment for future generations."

He hopes to continue Red and White's tradition of leadership and environmental stewardship established by his grandfather Thomas Crowley, who started the company in 1892.

"I want to ride across the San Francisco Bay on a quiet, fast boat with no emissions," he said. "If we get thirsty, we can drink the exhaust."

Explore further: Fast-fill hydrogen fueling station enabling zero emission transportation

Provided by: Sandia National Laboratories

SF Port may locate hydrogen fueling station at Pier 54 - by j_sabatini - The San Francisco... Page 1 of 7



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SF Port may locate hydrogen fueling station at Pier 54



Above, a rendering of a possible hydrogen cell fueled ferry boat being studied for use on San Francisco Bay. A proposal to build a hydrogen refueling station on Port property could be used to fuel ferries like that as well as the expected increase of hydrogen-fueled vehicles on the road. It would be the first hydrogen fueling station in San Francisco. (Courtesy Sandia National Laboratories)

By Joshua Sabatini on August 15, 2016 1:00 am



A hydrogen fueling station may operate on a Port of San Francisco pier as part of an effort to bring a zero-emissions ferry service to the San Francisco Bay.

The station would be the first of its kind in the world in that it would serve both boats and private automobiles. Port officials have identified Pier 54 as the most feasible site for the hydrogen filling station, which would cost up to \$5 million to build.

The idea comes as auto makers are producing an increasing number of zero emission vehicles powered by hydrogen fuel cells — in fact, every major car company is expected to have a hydrogen fuel cell model within the next five years. With state and industry backing, more and more hydrogen filling stations are cropping up, only none have yet to open in San Francisco.

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SF Port may locate hydrogen fueling station at Pier 54 - by j sabatini - The San Francisco... Page 3 of 7

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The Port wouldn't build the hydrogen filling station, only act as the landlord. But Elaine Forbes, interim executive director of the Port, has provided a letter of support of the pier project for those interested in applying to receive a portion of the \$33 million in grant funding provided by the California of Energy Commission to pay for more hydrogen filling stations throughout the state.

Applications are due Aug. 19 and Port officials identified Steven Brooks of Retail Energy Now and Jonathan Avila of StratosFuel as two potential applicants.

"The Port of San Francisco enthusiastically supports the creation of an intermodal hydrogen fueling station on Port property," Forbes wrote in the letter. "The proximity of Port property to the high population density of San Francisco would make a Port-based hydrogen station valuable in many respects."

Hydrogen fuel cells power vehicles when a fuel cell generates electricity through an electrochemical reaction between hydrogen and oxygen. The only byproduct is heat and water.

The Port's interest in hydrogen fuel cells began with Red and White Fleet President Tom Escher, who operates a passenger ferry service on Port property. About four years ago Escher began to research alternatives to his diesel fleet and came upon maritime hydrogen fuel cell research being done by Livermore-based Sandia National Laboratories.

He then shared his idea of a fuel cell ferry. The lab's scientists reacted at first with skepticism and advised Escher to instead set his sights on the cleaner energy from liquefied natural gas, but were later won over with some preliminary calculations.

That led the lab to secure a \$500,000 grant from the Department of Transportation Maritime Administration to determine if it was feasible to build SF BREEZE (San Francisco Bay Renewable Energy Electric vessel with Zero Emissions) that could travel some 35 knots.

While the official report isn't due out until September, Joseph Pratt, the SF BREEZE project manager at Sandia National Laboratories, said they sought to answer three main things: is it technically feasible, would it pass muster with maritime regulatory agencies and the economics. The 15 monthlern remarks shows it is feasible to operate a 30-meter, 14 segment for with a catamaran design on hydrogen-filled fuel cells reaching 35 knots and that is can pass regulations, according to Pratt.

The cost, however, is two times the conventional diesel ferry, he said, noting that diesel ferries cost between \$10 million to \$15 million and SF BREEZE would cost between \$20 million and \$30 million. But the bulk of that cost is in the fuel cell system, in this case an electric motor with electricity from about 150 fuel cells the size of carry-on luggage.

Sandia has secured another grant to optimize the ferry design, which would look at slowing the ferry down and adding passenger capacity to lower the cost.

"There's some room to optimize a fuel cell ferry using today's technology," Pratt said. The lab is also working on powering a Scripps research vessel using hydrogen fuel cells.

Pratt said they didn't do a market study and that while the feasibility study does factor in cost parity that may not be the most important factor, noting there is a demand for cars using this technology even with a higher sticker price than gasoline powered cars. The new Toyota Mirai, for example, costs \$57,000, which can be lowered with government incentives such as a federal tax credit of \$8,000, and a \$5,000 cash rebate from the state.

"I'm really excited to see something like this could really happen," Pratt said.

While hydrogen fuel cell research has gone on for decades, Pratt suggested that the auto industry and people's growing awareness of climate change is creating a demand to make real world applications of the technology.

The research outcome is welcome news for Port officials. "The vision is that all ferry service on the Bay would be zero emissions," said Port spokesperson Renée Dunn Martin.

Escher is also encouraged by the results and is committed to eventually building the ferry. He has even set a launch date of March 17, 2018, at 10 a.m., which happens to be St. Patrick's Day. "St. Patrick got the snakes out of Ireland. We are going to have a solution for pollution," Escher said.

Chris White, a spokesperson for the California Fuel Cell Partnerships, a collection of auto manufacturers building fuel cell vehicles, said, "We definitely need to have at least one [hydrogen filling station] in San Francisco."

Currently there are 20 hydrogen filling stations in California with the nearest ones to San Francisco in Mill Valley, Emeryville, South San Francisco and Hayward. The state projects there will be 50 by the end of 2017.

More fuel outlets could incentivize purchases of these vehicle types, particularly heavy road users like drivers for ride-hail services such as Uber or Lyft.

"If you're an Uber driver and you're driving around in San Francisco, running over to Emeryville to fill your tank up is not real handy." White said.

The push for zero-emission cars is being driven by state regulations. In 2012, Gov. Jerry Brown issued an executive order calling for 1.5 million zero-emission vehicles on California's roads by 2025. Taking the effort further, Assemblywoman Autumn Burke, D-Los Angeles, announced Friday a proposed bill that would require 15 percent of all vehicles sold in California to be emissions-free by 2025.

There are currently 331 hydrogen fuel cell car owners in the state. That is projected to increase to 13,500 vehicles in 2019 and 43,600 vehicles in 2022, according to the state's Air Resources Board.

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Hydrogen-powered passenger ferry in San Francisco Bay is possible, study says

October 6, 2016



An artistic rendering of the proposed San Francisco Bay Renewable Energy Electric Vessel with Zero Emissions (SF-BREEZE). A Sandia National Laboratories-led study found that a high-speed, hydrogen-fueled passenger ferry is feasible. Credit: Sandia National Laboratories

Nearly two years ago, Sandia National Laboratories researchers Joe Pratt and Lennie Klebanoff set out to answer one not-so-simple question: Is it feasible to build and operate a high-speed passenger ferry solely powered by hydrogen fuel cells? The answer is yes.

The details behind that answer are in a recent report, "Feasibility of the SF-BREEZE: a Zero Emission, Hydrogen Fuel Cell High Speed Passenger Ferry." SF-BREEZE stands for San Francisco Bay Renewable Energy Electric Vessel with Zero Emissions.

"The study found that it is technically possible to build a high-speed, zero-emission hydrogenpowered ferry. We also believe this can be done with full regulatory acceptance," said Pratt.

"In the course of the study, we examined over 10 major issues where feasibility was initially unknown. SF-BREEZE sailed through them all," added Klebanoff.

Tom Escher, president of San Francisco's Red and White Fleet, first conceived of the project when he asked if it was possible to do away with emissions altogether on one of his ferries.

"This is a game changer. We can eliminate environmental pollution from ships," he said. "This could have a major impact on every shipyard in the country."

Funded by the Department of Transportation's Maritime Administration and led by Sandia, the feasibility study brought together the American Bureau of Shipping (ABS), the U.S. Coast Guard, naval architect Elliott Bay Design Group, the Port of San Francisco and dozens of other contributors.

"Not long ago, the prospect of pollution-free transportation seemed like science fiction," said Maritime Administration Administrator Paul "Chip" Jaenichen. "Today, through public-private collaboration on projects like SF-BREEZE, we are making progress to turn it into a reality."

Novel boat design

Hydrogen-powered ferries do exist, but most are smaller, slower vessels used for tours on lakes and rivers. The SF-BREEZE study set out to discover whether it is technically feasible to build a large, fast vessel; it could meet maritime regulations; and it could be economically competitive with modes of transportation already available in the San Francisco Bay area.

The group drew up conceptual specifications: a 150-passenger commuter ferry that would travel four 50-mile round-trip routes each day at a top speed of 35 knots (roughly 39 miles per hour) about 60 percent of the time. The ferry could refuel midday, between the morning and afternoon commutes.

"This kind of boat has never been built before," said mechanical engineer Curt Leffers, the project manager for Elliott Bay Design Group. "Hydrogen fuel cells are heavier than diesel engines for a given power output, so achieving the right power-to-weight ratio for the vessel was tricky."

The need for speed drove the design to a slightly longer catamaran. The engineers were able to save weight by consolidating the support equipment for the fuel cells.

To achieve the necessary safety standoffs from the fuel cells, the designers placed the fuel cells on the main deck of the vessel in a separate compartment. Leffers explained that this provides physical separation between the fuel cells and passengers. The project supports Elliott Bay's commitment to the environment. "I'm a big believer in developing environmentally friendly designs," Leffers added. "This project has been terrific because it's something I really believe in. I think that this proof-of-concept, that this boat can be built, is very important for future projects."

Regulations and economics

ABS issued a conditional Approval in Principal to verify that the conceptual design would be compliant with applicable regulations and rules and to identify any potential gaps in compliance. Combining their assessment with feedback from the U.S. Coast Guard, Sandia found no regulatory show-stoppers and concluded that the vessel will be acceptable from a regulatory perspective once a more detailed "ready-to-build" design is generated.

"ABS is proud to have participated in the SF-BREEZE feasibility study and advance the research on unique challenges of designing a high-speed passenger ferry powered solely by hydrogen fuel cells," said ABS Chief Technology Officer Howard Fireman. "The collaboration with Sandia and the project team extends our knowledge base and the potential technology transfer to address the challenge of reducing the environmental footprint."

The hydrogen ferry would cost about twice as much as a comparable diesel ferry with today's prices. Much of that cost is in the fuel cell system.

"Right now, we can't achieve economic parity with a comparable diesel ferry," said Pratt. "But this is a question we need to explore further. Is economic parity necessary from the outset? Lessons from the automotive market tell us maybe not."

Vehicle manufacturers have successfully brought fuel cell electric vehicles to market even though those cars are more expensive than comparable internal combustion engine vehicles. Many experts expect mass adoption of fuel cell electric vehicles to bring down prices of hydrogen fuel cells.

Optimization is next step

The next step is to optimize the vessel design. "We need to consider if the parameters we started out with are optimal for the technology that is available today," said Pratt.

Working with Red and White Fleet and other stakeholders, Klebanoff and Pratt are now undertaking an optimization study. They will examine the tradeoffs between speed and costs and emissions among other factors.

Red and White Fleet President Escher sees SF-BREEZE as the start of a revolution in marine transportation. "When this boat is launched, it will be a seed. When you add a seed to water, it grows," he said. "This seed could grow into a 40-meter tugboat, a 70-meter supply boat or a 300-meter oceangoing ship trading between the West Coast and Hawaii. And all at zero pollution."

Explore further: Red and white fleet going green

More information: "Feasibility of the SF-BREEZE: a Zero Emission, Hydrogen Fuel Cell High Speed Passenger Ferry": energy.sandia.gov/download/38805/

Provided by: Sandia National Laboratories



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More Details Revealed on San Francisco Hydrogen Ferry, Bunkering Plans

More Details Revealed on San Francisco Hydrogen Ferry, **Bunkering Plans**

Tuesday October 11, 2016

Follow reports in August that the Port of San Francisco is looking at the possibility of developing a hydrogen bunkering station, more details have been revealed on the plans to build and operate a high-speed, zero-emission hydrogen-powered ferry, and associated refueling infrastructure.

Science news service Phys.org reports that a recent study has found the project to be "technically possible," and Sandia National Laboratories (Sandia) says it has signed a Cooperative Research and Development



SF-BREEZE is a zero emissions concept ferry, set to be powered by a hydrogen fuel cell.

Agreement (CRADA) with San Francisco-based Red and White Fleet, which will see the development of the vessel and associated infrastructure.

The vessel is known as SF-BREEZE - San Francisco Bay Renewable Energy Electric Vessel with Zero Emissions.

"Hydrogen fuel cells have several advantages over the diesel engines that power most passenger ferries - no harmful exhaust emissions, higher energy efficiency, quiet operation, and no risk of fuel spills. Replacing diesel engines and generators with hydrogen fuel cells could greatly improve air and water quality in harbor areas," said Sandia.

The company says that the hydrogen refueling station that will be built under the project is expected to be the largest in the world.

"In the course of the study, we examined over 10 major issues where feasibility was initially unknown. SF-BREEZE sailed through them all," Lennie Klebanoff, a researcher at Sandia told Phys.org.

The passenger ferry is said to be expected to use about 1,000 kilograms (kg) of hydrogen per day, while the refueling station is expected to have capacity for 1,500 kg per day.

"

Hydrogen fuel cells have several advantages over the diesel engines that power most passenger ferries

Sandia National Laboratories



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	IFO380		MGO	
	\$/mt	+/-	\$/mt	+/-
Singapore	332.50	2.00	497.50	1.00
Rotterdam	307.00	0.50	467.00	1.00
Houston	321.00	14.50	524.00	0.50
Fujairah	327.00	2.00	557.50	1.00

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More Details Revealed on San Francisco Hydrogen Ferry, Bunkering Plans - Ship & Bunker

As Ship & Bunker reported in August, the Port of San Francisco has identified Pier 54 as the most viable site for a hydrogen fueling station.

Ship & Bunker News Team

To contact the editor responsible for this story email us at editor@shipandbunker.com

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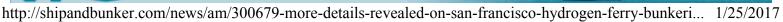
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HOME / NEWS / SHIPBUILDING / ALL AMERICAN TO BUILD HYBRID-ELECTRIC PASSENGER FERRY

All American to build hybrid-electric passenger ferry

By Ken Hocke on FEBRUARY 13, 2017





The new vessel will be the first aluminum-hulled, lithium-ion battery-electric hybrid vessel built from the keel up under USCG Subchapter K regulations. All American Marine image

All American Marine (AAM) has inked a deal for the construction of a new 128'x30' hybrid-electric 600-passenger vessel for the **Red and White Fleet** in San Francisco. The contract for the new aluminum monohull *Enhydra* was signed during the recent Passenger Vessel Association annual meeting in Seattle.

"We are proud to offer a hybrid propulsion system that truly works with instant and tangible benefits," Joe Hudspeth, AAM's vice president of business development, said in a statement announcing the contract.

AAM's latest contract follows an earlier announcement that it would build a 500-passenger aluminum monohull tour boat for **Argosy Cruises**, Seattle. Both operators were originally pursuing construction contracts for steel monohulls, but AAM was able to show considerable savings in construction and maintenance costs with an aluminum design, while ensuring delivery of a solid hull structure. Argosy will take delivery of its vessel in late fall and the Red and White Fleet will receive its new craft in late spring 2018.

The new vessel for Red and White Fleet will be the first aluminum hulled, lithium-ion battery-electric hybrid vessel built from the keel up under Coast Guard Subchapter K passenger vessel regulations and the latest guidelines for structural fire protection. The vessel is specifically designed for harbor tours of San Francisco Bay and the Golden Gate Bridge. Guests on board *Enhydra* will be able to experience amazing views of the bay and cityscape from each of the three decks. The second level offers a full wrap around viewing deck with access to the enlarged bow foredeck. The top deck is completely open and offers plenty of outdoor seating for sun soaking or just relaxing.

The shipyard partnered with **BAE Systems** to design and integrate the complete battery electric hybrid system. BAE Systems will supply its HybriDrive propulsion system that includes a generator, control system, and AC electric traction motor. The generator will mount to a variable speed **Cummins** QSL9 diesel engine, producing 410 hp at 2,100 rpm. The motor generator offers diesel-electric operation of the AC traction motor, which is coupled directly to the propulsion shaft. With this configuration, torque is immediately available for the propeller and the speed can be precisely controlled without the need for a reduction gear.

The hybrid system will also utilize battery power from two 80-kW lithium-ion battery packs. The batteries will come from **Corvus Energy** and are supplied under its next generation **Orca Energy** line. The BAE HybridDrive system can automatically utilize full electric battery operation at slower speeds and when maneuvering in and out of the harbor. At



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All American to build hybrid-electric passenger ferry | WorkBoat

higher speeds, the generator will automatically engage and augment the additional power demands of the traction motor. The battery system is sufficient to meet the entire demand of the vessel's hotel load while at the same time providing silent and emission-free operation of the propulsion system during an evening sunset cruise.

Red and White Fleet's vice president of operations, Joe Burgard, said he's eager for passengers to experience San Francisco Bay from the silent decks of the *Enhydra* in 2018. "We see the propulsion configuration on the *Enhydra* as phase one in our move toward the full electrification of our fleet. Stay tuned for phase two."

AAM is celebrating its 30th anniversary and will move into a new purpose-built shipbuilding facility at nearby Squalicum Harbor in April.

ABOUT THE AUTHOR



Support the families of the *El Faro* crew



Ken Hocke

Ken Hocke has been the senior editor of WorkBoat since 1999. He was the associate editor of WorkBoat from 1997 to 1999. Prior to that, he was the editor of the Daily Shipping Guide, a transportation daily in New Orleans. He has written for other publications including The Times-Picayune. He graduated from Louisiana State University with an arts and sciences degree, with a concentration in English, in 1978.

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Feasibility of a high speed, zero emission hydrogen fuel cell passenger ferry in the San Francisco Bay

Captain Joe Burgard Red and White Fleet

Dr. Joe Pratt Sandia National Laboratories Bay Area Council Water Transit Committee January 25, 2017



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Red and White Fleet

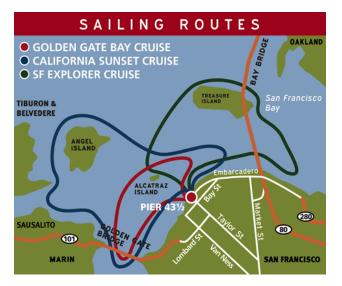


Sandia National

Thomas C. Escher, Owner and President



- Founded in 1892, the historic Red and White Fleet today offers over 5,000 sightseeing trips/yr under the Golden Gate Bridge.
- Fleet: 4 passenger vessels, steel mono hulls, 350 to 600 pax.
- Under the visionary leadership of Mr. Escher, we are committed to providing our services with the highest level of environmental responsibility.
- We run 6 Tier III engines and 10 Tier II engines across our fleet, but it is clear that these incremental criteria emissions reductions are insufficient to respond to near term threats.
- In 2014, Mr. Escher made a commitment to providing our services on a zero emission vessel.



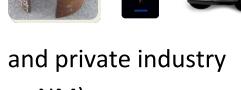


Sandia National Laboratories "Exceptional service in the national interest"

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 - U.S. Department of Energy (DOE)
 - ~12,000 employees

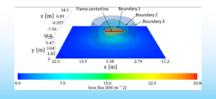
National

- ~US\$2.3B/yr from DOE, other federal agencies, and private industry
- H₂ Program in Livermore, CA (HQ in Albuquerque, NM)
- Hydrogen program: 60+ years technical depth in a wide range of areas, which we apply to enable impactful clean energy solutions
- Zero Emission Maritime Program
 - SF-BREEZE ferry
 - ZERO/V coastal-class research vessel
 - Maritime Fuel Cell Generator
 - Development of IMO H₂ regulations
 - Zero Emission Hydrogen Vessel Working Group













Hydrogen and Fuel Cells Program



Project Concept

High-speed H₂ Ferry



Engineering model of the SF-BREEZE

Dockside Fueling Station



Example existing dockside hydrogen station in Hamburg, Germany

Technically Possible?

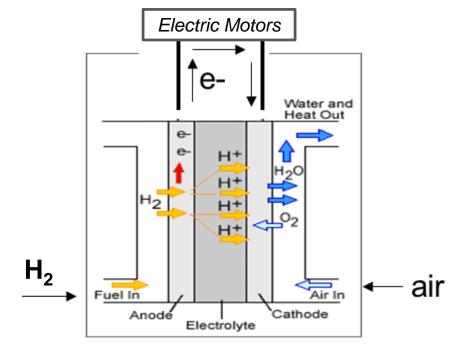
Accepted by Regulators?

Commercially Viable?





When hydrogen is used in a *Fuel Cell* it produces ZERO pollution or greenhouse gas



 $2 H_2 + O_2 \rightarrow 2 H_2O$



<u>Going In:</u> H₂ and air

Going Out: Electricity Waste Heat Warm humidified air



Hydrogen fueling stations and fuel cell electric vehicles are in the Bay Area today

Hyundai Tucson



AC Transit buses

Toyota Mirai



Honda Clarity



Hydrogen and Fuel Cells Program









Hydrogen is a combustible fuel, very similar to natural gas, but does not contain *carbon*.

 H_2O CO CO₂ Natural gas H_2C Hydrogen

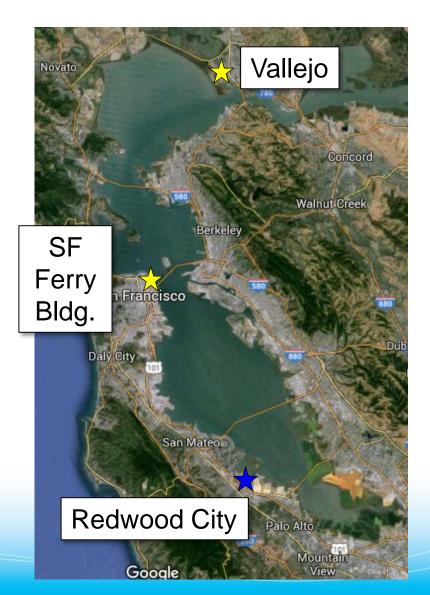
Hydrogen is the lightest gas





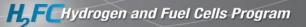
Ferry Operating Logistics – Route for Analysis

- High-speed commuter ferry in an ocean bay environment, must be competitive with other modes of transportation (car, bus, train, other ferries)
- 23 nm one-way, 35 kts top speed
- Daily logistics:
 - Two morning round trips
 - Refuel in less than 1 hr.
 - Two afternoon round trips
- Designing the ferry to meet the long distance of the Vallejo-SF route gives it maximum flexibility in eventual route choice, including a SF-South Bay route.



Hydrogen and Fuel Cells Program





The final SF-BREEZE design meets all requirements



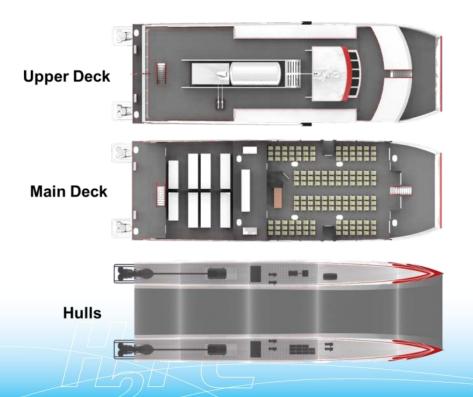


Elliott Bay Design Group Naval Architecture by Elliott Bay Design Group



SF-BREEZE Design Details







- LOA 109' x Beam 33' x Depth 11.25'
 Full Load Draft ~ 4.6'
- Full Load Displacement ~ 133 LT
- Tonnage: 79.86 GRT
- Passengers: 150
- Service Speed: 35 knots
- Propulsion power 4.4 MW, installed: 4.92 MW
- Fuel: Renewable LH₂
- Low noise, no diesel fumes or odor
- Faster response time than diesel
- ZERO Emissions on the water
- ZERO Fuel Spills on the water or on land



The SF-BREEZE uses LH₂, which is like LNG. Both have been safely transported and used for decades.



LH₂ Storage Tank



LNG Storage Tank

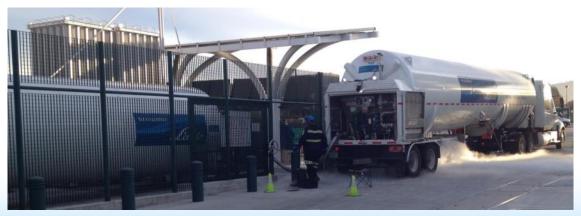


Hydrogen and Fuel Cells Program

NASA's LH₂ transport barge



More than 50 LH₂ trucks for every Space Shuttle launch



LH₂ refill at AC Transit in Emeryville, CA





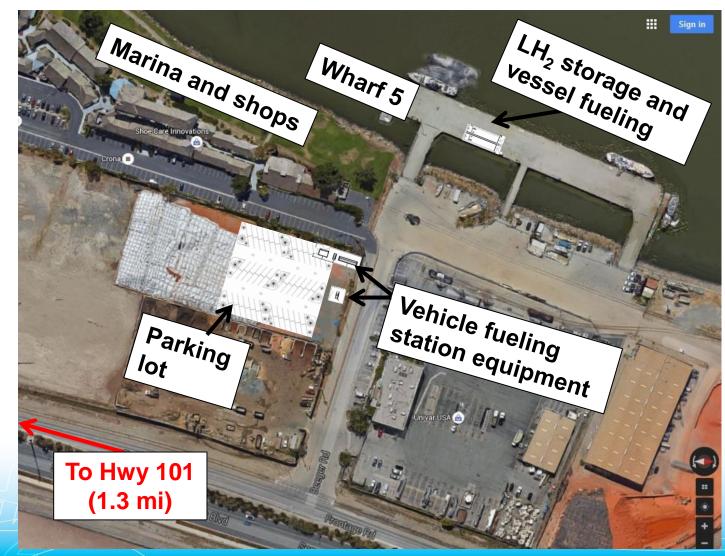
The Port of San Francisco prefers Pier 54 for fueling both the SF-BREEZE and fuel cell electric vehicles.







The Port of Redwood City identified Wharf 5 and nearby lots as ideal for fueling vessels and vehicles.







Air Emissions: Analysis, with comparison to the existing, similar sized ferry on the same route



SF-BREEZE

Top Speed: 35 knots Power Plant: PEM fuel cells Fuel: Liquid Hydrogen Passenger Capacity: 150



<u>Vallejo</u>

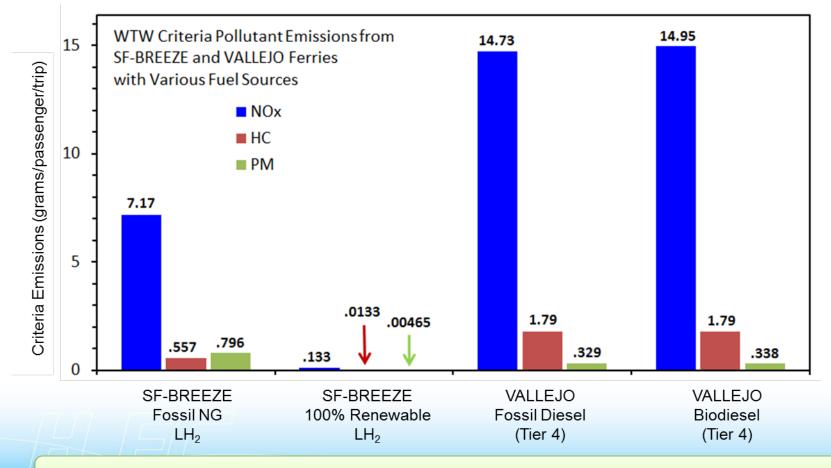
Top Speed: 35 knots Power Plant: Diesel engine Fuel: Ultra low sulfur diesel Passenger Capacity: 300

For this comparision, assume a "new-build" Vallejo diesel vessel held to Tier 4 criteria pollutant emission constraints.





The SF-BREEZE drastically reduces "Well-to-Waves" pollutant emissions compared to the most advanced (Tier 4) marine diesel ferries.

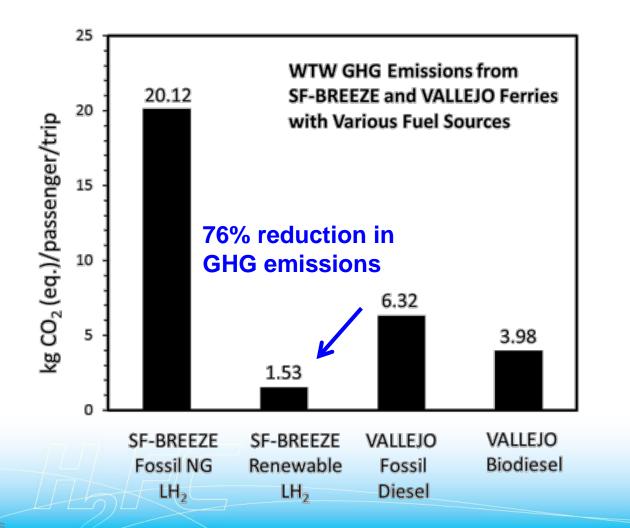


The SF-BREEZE has zero criteria pollutant emissions at the point of use





SF-BREEZE can achieve dramatic Well-to-Waves greenhouse gas (GHG) reduction with *renewable* LH₂

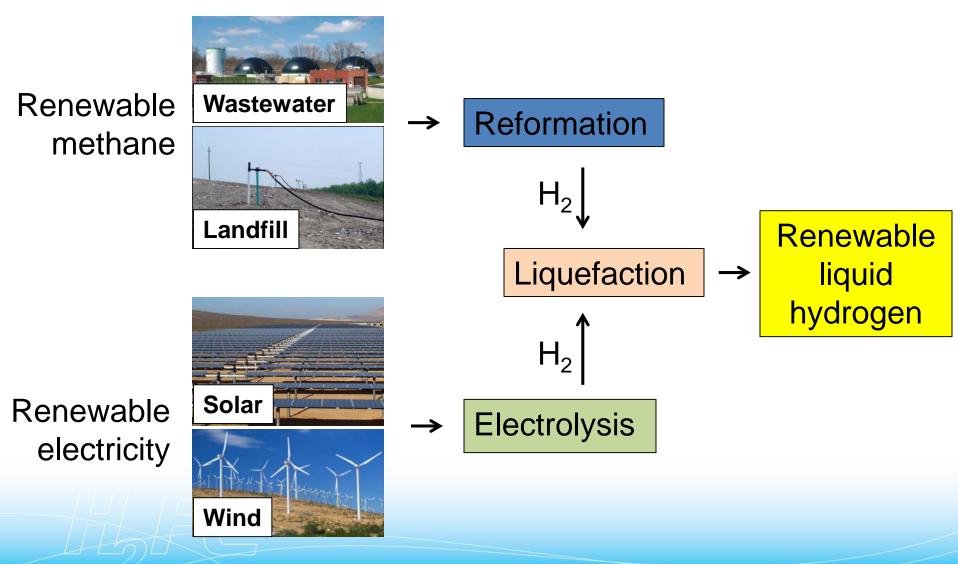


All SF-BREEZE emissions are due to the LH₂ production path; the SF-BREEZE is zero emission at the point of use





Renewable liquid hydrogen is available







The costs are currently higher than diesel with projected cost decreases ahead

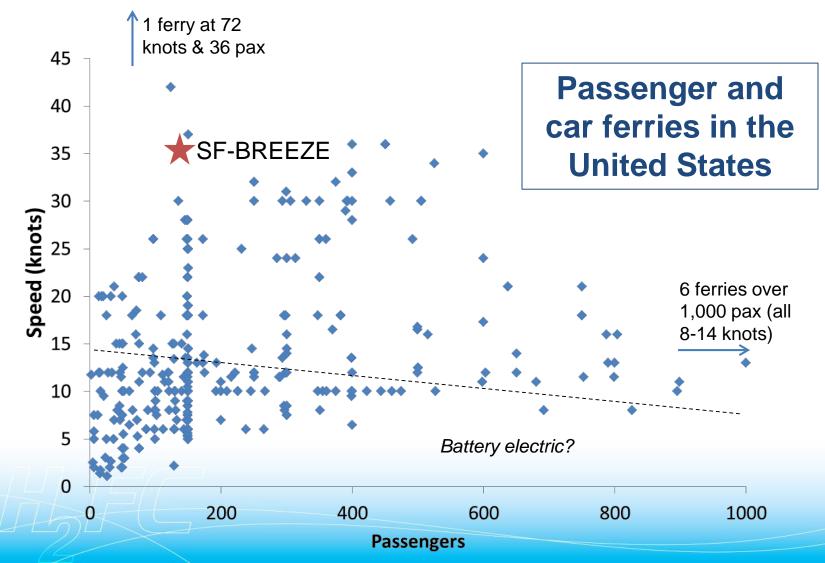
Capital Cost 5-Year Fuel Cost \$35,000,000 \$60,000,000 \$30,000,000 \$50,000,000 \$25,000,000 \$40,000,000 \$20,000,000 \$30,000,000 \$15,000,000 \$20,000,000 \$10,000,000 \$10,000,000 \$5,000,000 **\$0 \$0 Diesel Fuel** Conventional 100% SF-BREEZE SF-BREEZE **Diesel Capital** Hydrogen Renewable Capital -Capital -- Today Fuel Hydrogen Today Future

The decreased health risks and lower environmental impact saves our region **\$2.6M - \$11M** for each SF-BREEZE ferry built instead of a Tier 4 diesel ferry.



Optimization: What is the best type of zero emission ferry to build today?

Hydrogen and Fuel Cells Program







Summary

	Ferry	Hydrogen Station	
Technical	\checkmark	\checkmark	
Regulatory	\checkmark	\checkmark	
Economic	Higher than conventional now, today's market acceptance to be determined		





Next Steps

Six project phases

- Phase 1: Feasibility study (complete)*
- Phase 2: Optimization of the vessel (starting)*
- Phase 3: Detailed design of the H₂ ferry and station
- Phase 4: Build the H₂ ferry and station
- Phase 5: Operate the H₂ ferry and station
- Phase 6: Extend to H₂ cars, buses and trucks



*Phases 1 and 2 funded by US DOT / Maritime Administration



Letters of support

Port of SF (2)





Lt. Governor Gavin Newsom GAVIN NEWSON September 9, 2016 Joseph W. Pratt, Ph.D. 7011 East Avenue Livermore CA 94551 RE: SF-BREEZE Dear Ice. ssioning of the SF-BREEZE itself. I am dir 0 0 0 NYDROGEN IMPLEMENTING AGREEMENT May 29, 2016 Mr. Thomas C. Escher Red and White Fleet San Francisco, CA Dear Mr. Eacher Thank you very much for your interest in the IEA Mudragen Implementing Agreement and our new task in hydrogen in marine applications. We commend your vision and initiative in this field. Given our mutual interests and goals, as well as the related work of MARAD and your colleague Dr. Joseph Fran New Sanda National Laboratory, the IEA HiA nopes to cooperate with you and your team on upcomin ring with the life and in the local second s (v)) erganization that is a unique leader in the conduct of countriated hydrogen research, opment and demonstration activities on a global basis. For more information on current to vities, please see our site - http://eahia.org/Nome.aspi is have recently announced a new task called Hydrogen in Marine Ap We use meaning provide an analysis cannot approximate the constraints of the second se repard reasonsh in the area and act as a worldwide technology monitor while contributing to the glob egulatory framework. In addition, the task seeks to advance the introduction and penetration of trogen technology in the maritime. As a starting point, the focus of the task will be use of fuel cells in such as those used in ferry applic pping is the primary means of transport worldwide. Whilef world trade is carried out by ships when najor emissions are CO, 50X and NOX. "Healthy oceans" is one of the main themes of the industry here is a strong focus among ship ewners, like you, and insurance companies to work towards greene marker and rafer shipping. led and White Pieet's success in the maritime sector and your commitment to developing a hydroge And cell vected whose refueling infrastructure serves as a hydrogen hub for land and sea makes you company an ideal candidate to participate in our new task. Red and White Reet is wholeheartedly rvited to join the IEA HA in our marine tack. Above and beyond cooperation in the IEA HIA task, w IEA's H₂ Implementing

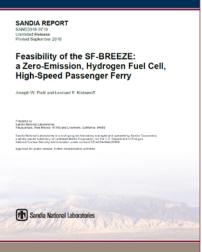
Agreement



Thank you!

SF-BREEZE Feasibility Study Final Report - Download from: maritime.sandia.gov

- All ferry design documents and drawings
- LH₂ fuel assessment (with comparison to LNG)
- Emissions
- Regulations
- Bunkering
- Economics



Contacts

Captain Joe Burgard (415) 901-5248 jburgard@redandwhite.com

> Dr. Joe Pratt (925) 294-2133 jwpratt@sandia.gov





Registry

Legacy Application Review Sheet

Application No.: Business Name: Business Address: District: Applicant: Nomination Date: Nominated By:

LBR-2016-17-068 **Ruby Sailing** 1129 Folsom Street District 6 Joshua Pryor, Owner/Operator/Captain January 30, 2017 Supervisor Jane Kim

CRITERION 1: Has the applicant has operated in San Francisco for 30 or more years, with no break in X Yes San Francisco operations exceeding two years? No

1129 Folsom Street from 1975 to Present (42 years)

CRITERION 2: Has the applicant contributed	d to the neight	oorhood	's history and/or the identity o	of a
particular neighborhood or community?	Х	Yes	No	

CRITERION 3: Is the applicant committed to maintaining the physical features or traditions that define the business, including craft, culinary, or art forms? X Yes No

NOTES: NA

DELIVERY DATE TO HPC: February 15, 2017

Richard Kurylo Manager, Legacy Business Program



Member, Board of Supervisors District 6



City and County of San Francisco

JANE KIM 金貞妍

January 30, 2017

Regina Dick-Endrizzi, Director San Francisco Small Business Commission 1 Dr. Carlton B. Goodlett Place, Room 110

Dear Regina:

I would like to formally nominate RUBY Sailing as a candidate for the Legacy Business Registry. RUBY Sailing was first opened in 1981 by Joshua Pryor. Mr. Pryor, a graduate of the San Francisco Art Institute, was passionate about turning his love of sailing into a career after sailing around the world in 1970. Pryor's sailing business has given the public a chance to experience the Bay via a yacht.

In the 1970's, Pryor was dedicated to turning his passion into a business that everybody in San Francisco could enjoy. He worked tirelessly to design and build his own sailboat. He spent all of his free time building RUBY in a warehouse on Folsom Street, while working part-time in construction and driving a taxi at night. He went back to school to receive his captain's license. On March 24th, 1981 RUBY become to first sailboat to have a Coast Guard Certificate of Inspection on the San Francisco Bay.

In 1982, Pryor entered RUBY in the Doublehanded Farallons Race. RUBY won the race and quickly gained recognition in the years following. Rave reviews were written about Pryor's Business in Today and the San Francisco Examiner and RUBY was out almost every day showing people around the Bay. RUBY Sailing also takes pride in giving back to the community, through donations to schools and participating in many charity sailing fundraisers.

Today, RUBY continues to show people around the Bay and has had thousands of people aboard over the years. RUBY is a member of the Master Mariners Benevolent Association and each year she takes part in their regatta for historic sailing vessels. Pryor plans to continue showing citizens around the Bay on RUBY and hopes to one day pass her along to a younger sailer. RUBY Sailing is a historic part of San Francisco and I am proud to nominate this business as a candidate for the San Francisco Legacy Business Registry.

Thank you,

Supervisor Jane Kim

Legacy Business Registry Application

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Section One:

Business / Applicant Information. Provide the following information:

- The name, mailing address, and other contact information of the business; ۲
- The name of the person who owns the business. For businesses with multiple owners, identify the person(s) ۲ with the highest ownership stake in the business;
- The name, title, and contact information of the applicant; ۲
- The business's San Francisco Business Account Number and entity number with the Secretary of State, if ۲ applicable.

NAME OF BUSINESS:			
RUBY Sailir	9		
BUSINESS OWNER(S) (identify the per	son(s) with the highest ownershi	p stake	in the business)
Joshua Pry	01		
CURRENT BUSINESS ADDRESS:		TELEF	PHONE:
Office: 1129 Folso	om, S.F.CA 94103	(415	1961-2/65
-		EMAIL	
Boat Dock: 835 Ter	A 94158	rub	y sailing & yahos, com
WEBSITE:	FACEBOOK PAGE:		YELP PAGE
rubysailing.com	Ruby sailing		Ruby sailing
APPLICANT'S NAME			
Jachica Private			

Joshua Pryor Applicant's title	Same as Business			
owner/operator/captain				
APPLICANT'S ADDRESS:	TELEPHONE:			
1129 Folsom St.	(415) 272-0631			
S.F. CA 94103	EMAIL:			
5.1	ruby sailing@yahod.com			

SAN FRANCISCO BUSINESS ACCOUNT NUMBER:	SECRETARY OF STATE ENTITY NUMBER (if applicable):
0102753	

OFFICIAL USE: Completed by OSB Staff	
NAME OF NOMINATOR:	DATE OF NOMINATION:

3

Section Two:

Business Location(s).

List the business address of the original San Francisco location, the start date of business, and the dates of operation at the original location. Check the box indicating whether the original location of the business in San Francisco is the founding location of the business. If the business moved from its original location and has had additional addresses in San Francisco, identify all other addresses and the dates of operation at each address. For businesses with more than one location, list the additional locations in section three of the narrative.

ZIP CODE:	START DATE OF BUSINESS
941.03	May 1975
	RATION AT THIS LOCATON
1975-	- 2017
ZIP CODE:	DATES OF OPERATION
94158	Start: End:
ZIP CODE:	DATES OF OPERATION
	Start:
	End:
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Legacy Business Registry

Application

Section Three:

Disclosure Statement.

San Francisco Taxes, Business Registration, Licenses, Labor Laws and Public Information Release.

This section is verification that all San Francisco taxes, business registration, and licenses are current and complete, and there are no current violations of San Francisco labor laws. This information will be verified and a business deemed not current in with all San Francisco taxes, business registration, and licenses, or has current violations of San Francisco labor laws, will not be eligible to apply for the Business Assistance Grant.

In addition, we are required to inform you that all information provided in the application will become subject to disclosure under the California Public Records Act.

Please read the following statements and check each to indicate that you agree with the statement. Then sign below in the space provided.

- I am authorized to submit this application on behalf of the business.
- I attest that the business is current on all of its San Francisco tax obligations.
- I attest that the business's business registration and any applicable regulatory license(s) are current.
- I attest that the Office of Labor Standards and Enforcement (OLSE) has not determined that the business is currently in violation of any of the City's labor laws, and that the business does not owe any outstanding penalties or payments ordered by the OLSE.
- I understand that documents submitted with this application may be made available to the public for inspection and copying pursuant to the California Public Records Act and San Francisco Sunshine Ordinance.
- I hereby acknowledge and authorize that all photographs and images submitted as part of the application may be used by the City without compensation.
- I understand that the Small Business Commission may revoke the placement of the business on the Registry if it finds that the business no longer qualifies, and that placement on the Registry does not entitle the business to a grant of City funds.

Joshua Pryor 1-12-17 Name (Print); Date:

Joshua Z. Pryor

10

RUBY SAILING Section 4: Written Historical Narrative

CRITERION 1

a. Provide a short history of the business from the date the business opened in San Francisco to the present day, including the ownership history. For businesses with multiple locations, include the history of the original location in San Francisco (including whether it was the business's founding and or headquartered location) and the opening dates and locations of all other locations.

Ruby Sailing was started in 1975. The first part of the business was to design and build a sailboat that could pass the Coast Guard licensing process. I opened a shop at 1129 Folsom Street. I called my business Folsom Boat Works, and after the boat started to take shape I changed the name of my business to China Basin Charter. The bare hull was launched in 1978 and docked at the China Basin Building in Mission Creek where the rest of the finish work was done. 1129 Folsom Street remained the business address with an office and shop.

In 1981, RUBY received her Coast Guard license and began sailing commercially with a Coast Guard licensed Captain and crew. From 1981 to 1991, RUBY sailed out of China Basin, Mission Creek and on average made two hundred excursions a year. Lunch cruises, evening sails, school science trips, whale watching, and private parties of all types were sailed. 1129 Folsom Street was the business office, and booking was done mostly by answering machine. In July 1991, the dock at China Basin burned down.

RUBY survived the fire and moved one half mile down the waterfront to San Francisco Boatworks at Central Basin. RUBY is currently at the same location and has been there since 1991. Folsom Street is still the business address and I keep my office and shop there.

b. Describe any circumstances that required the business to cease operations in San Francisco for more than six months?

Ruby Sailing has not been out of operation for more than six months since first sailing in 1981.

c. Is the business a family-owned business? If so, give the generational history of the business.

Ruby Sailing is a solely owned business.

d. Describe the ownership history when the business ownership is not the original owner or a family-owned business.

Not applicable. The current owner is the original owner.

e. When the current ownership is not the original owner and has owned the business for less than 30 years, the applicant will need to provide documentation of the existence of the

business prior to current ownership to verify it has been in operation for 30+ years. Please use the list of supplemental documents and/or materials as a guide to help demonstrate the existence of the business prior to current ownership.

Not applicable. The current owner is the original owner.

f. Note any other special features of the business location, such as, if the property associated with the business is listed on a local, state, or federal historic resources registry.

RUBY is a classic double ended sloop design with origins from North Europe and indigenous craft from South America. Ruby Sailing is a member of the Master Mariners Association and participates in classic boat regattas. 1129 Folsom Street, Ruby Sailing headquarters, is a typical 1920s SOMA concrete warehouse and was a frame shop before I moved in in 1975.

CRITERION 2

a. Describe the business's contribution to the history and/or identity of the neighborhood, community or San Francisco.

RUBY has been docked on San Francisco's southern waterfront for 39 years since her launch in 1978. As a working sailboat in this neighborhood, she has contributed to the history of boatbuilding and small boat commerce which has gone on in this neighborhood since the 1840s.

b. Is the business (or has been) associated with significant events in the neighborhood, the city, or the business industry?

RUBY was the first sailboat to receive a Coast Guard license to carry passengers on San Francisco Bay. I designed and built the boat using Coast Guard criteria for passenger boats like ferries and big excursion boats. Because I built the boat out of steel and used industrial techniques and machinery, I was able to comply with Coast Guard regulations. In March 1981, RUBY received a Certificate of Inspection to carry 31 passengers on San Francisco Bay.

Despite the industrial construction, RUBY maintained the look of a classic working sloop. In April 1982, I entered RUBY in the Doublehanded Farallons Race, a sailboat race out and around the Farallon Islands which in spring is typically windy and challenging. The race began in mild conditions, but after the fleet had cleared the Golden Gate a storm suddenly blew in from the south. The winds got up to 60 miles per hour. The fleet was ravaged. Six sailors died that day. RUBY won the race. The 1982 Farallons Race became an historical waypoint in boating safety. Because of the fatalities the Coast Guard put a moratorium on ocean racing and opened a dialog on safety issues. Gear failures and safety equipment were discussed, as well seamanship and boat handling. A liaison between race committees and the National Weather Service was encouraged to alert sailors of impending weather changes and warnings. I was able to participate in a Coast Guard seminar and presentations at several yacht clubs. RUBY was an example of a seaworthy vessel and continues to maintain a high safety rating.

c. Has the business ever been referenced in an historical context? Such as in a business trade publication, media, or historical documents?

Ruby Sailing has been profiled in several boatbuilding books and articles about passenger boats. STEELAWAY by Lucain W. Smith and Latitude 38 Magazine July 1981, Oct. 1994 are some.

d. Is the business associated with a significant or historical person?

The most historic person associated with Ruby Sailing was Harry Bridges. Union organizer and leader, he and his family were on board for his grand daughter's wedding. Other notable people who have associated with Ruby Sailing include some working crew; Red Baldwin (retired manager of the Ray Charles Band), Joe Delgado (third generation San Francisco longshoreman), and Margo St. James (feminist and activist).

e. How does the business demonstrate its commitment to the community?

RUBY donates sailing time to schools and nonprofits and encourages underserved communities to organize outings on the bay.

f. Provide a description of the community the business serves.

RUBY serves the whole city but mostly the southeast part of the city. School outings, birthday parties, "Off Site" office parties are typical types of charters. Public sails for marine events, firework shows and sightseeing including small groups and individuals most of whom are San Franciscans. Dog Patch, Potrero Hill and the new Mission Bay are the communities Ruby Sailing services most frequently.

g. Is the business associated with a culturally significant building/structure/site/object/interior?

RUBY is docked at the San Francisco Boatworks, the only boatyard left in San Francisco. The Ramp Cafe is also at this location and is a local favorite with Bayview, Potrero Hill, Dog Patch, Mission and SOMA residents.

h. How would the community be diminished if the business were to be sold, relocated, shut down, etc.?

If the business were to be close or shut down, the community would lose access to the bay, a place to have a party or to escape for a few hours out on the water. A loss of small working watercraft would be an historical loss of waterfront commerce.

CRITERION 3

a. Describe the business and the essential features that define its character.

Ruby Sailing is about access to the bay. The boat is not a fancy yacht. It is a working boat open to the public. She is strongly built with safety as the first consideration. The crew reflects the customs and culture of the neighborhood. San Francisco waterfront transactions are historically straightforward and honest. We are a local crew and practice San Francisco hospitality and a down to earth booking and payment policy. No deposits are required. Payments are usually made at the end of the cruise with no contracts or hidden fees.

b. How does the business demonstrate a commitment to maintaining the historical traditions that define the business, and which of these traditions should not be changed in order to retain the businesses historical character? (e.g., business model, goods and services, craft, culinary, or art forms)

Ruby Sailing does not do any on line booking. A phone conversation with the captain is all that is necessary to set-up a cruise. We do not use any booking agents.

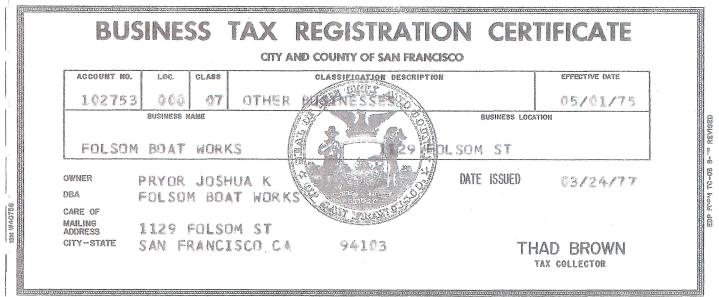
c. How has the business demonstrated a commitment to maintaining the special physical features that define the business? Describe any special exterior and interior physical characteristics of the space occupied by the business (e.g. signage, murals, architectural details, neon signs, etc.).

Ruby Sailing headquarters on Folsom St. has a neon sign in the window and a logo on the door from 1982. There is no advertising displayed on RUBY in order to retain the historical appearance. RUBY has a traditional San Francisco workboat paint job, black, grey and white. We make a point of flying all the appropriate flags at the appropriate times and are sure that flags are properly stowed at night. Anchor Steam Beer and San Francisco sourdough bread is always available on board.

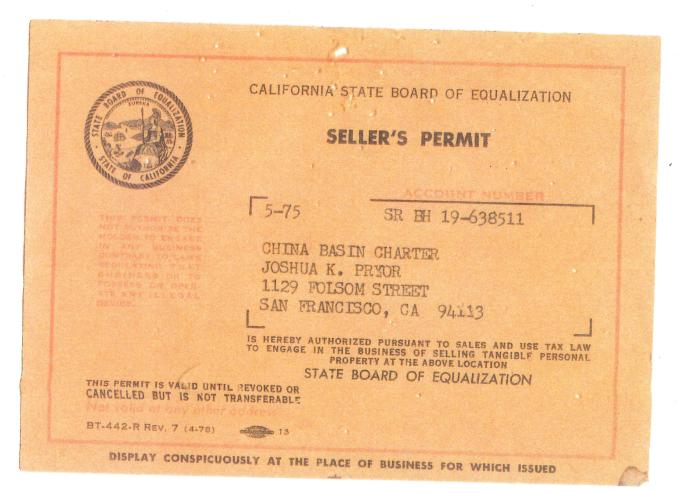
d. When the current ownership is not the original owner and has owned the business for less than 30years; the applicant will need to provide documentation that demonstrates the current owner has maintained the physical features or traditions that define the business, including craft, culinary, or art forms. Please use the list of supplemental documents and/or materials as a guide to help demonstrate the existence of the business prior to current ownership.

Not applicable. The current owner is the original owner.

- Capt. Joshua Pryor



NOTIFY THE YAX COLLECTOR IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS-107 CITY HALL, SAN FRANCISCO, 94102 - READ REVERSE SIDE



(Per			24 MARCH 1984 UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD						
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LEVIUS EDITION MAY BE USE

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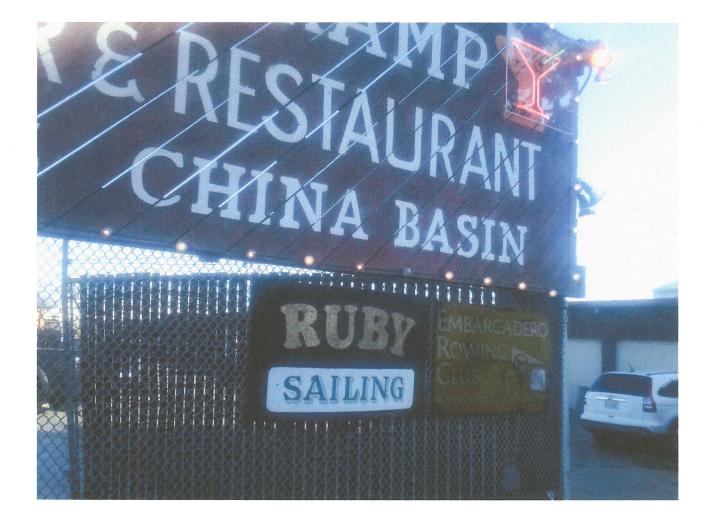
1977 RUBY and Josh Pryor



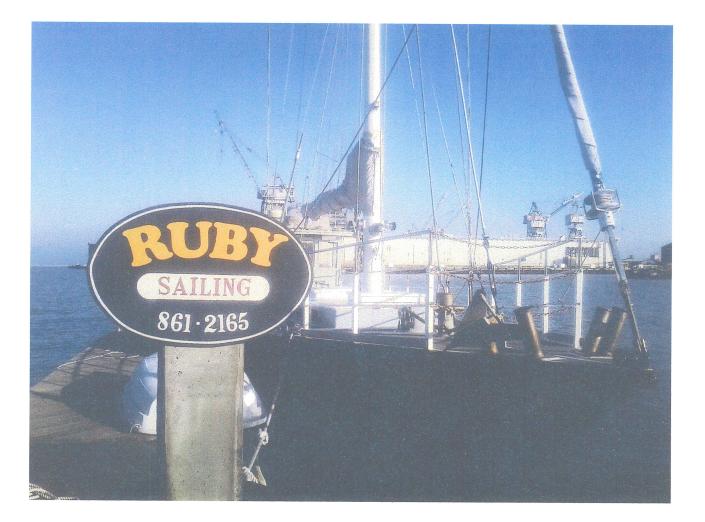
1129 FOLSOM STREET



1129 Folsom st.





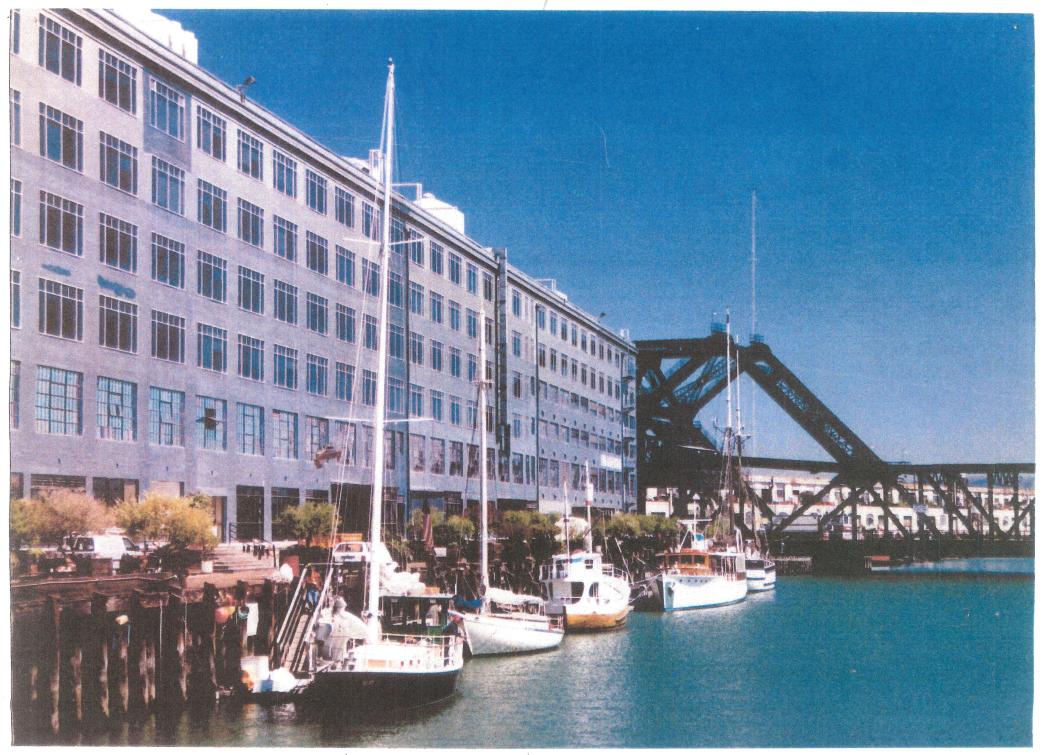


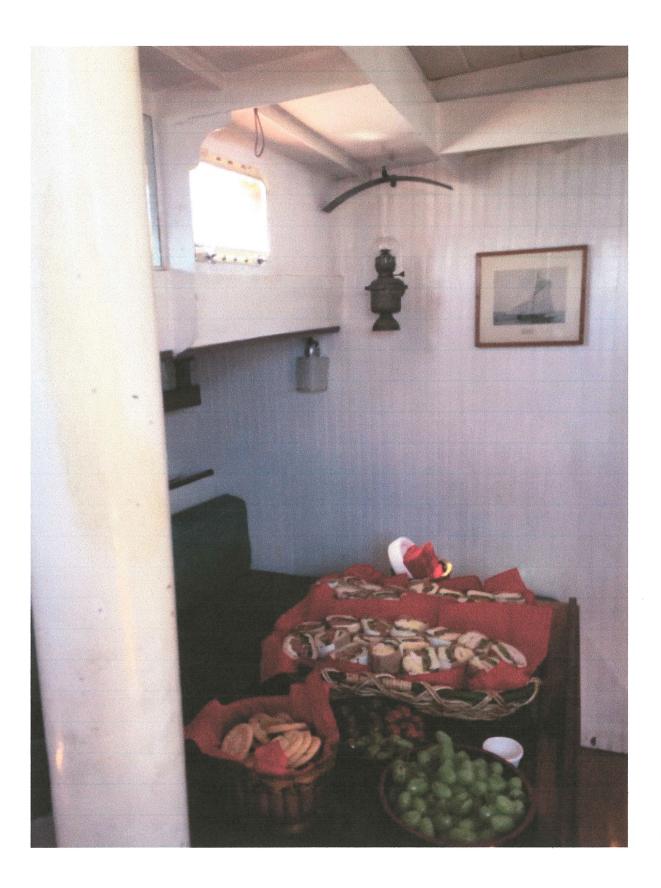


RUBY, Winning Doublehanded Farallones Race 1982

Latitude 38 Photo

China Basin / Mission Greek 1990

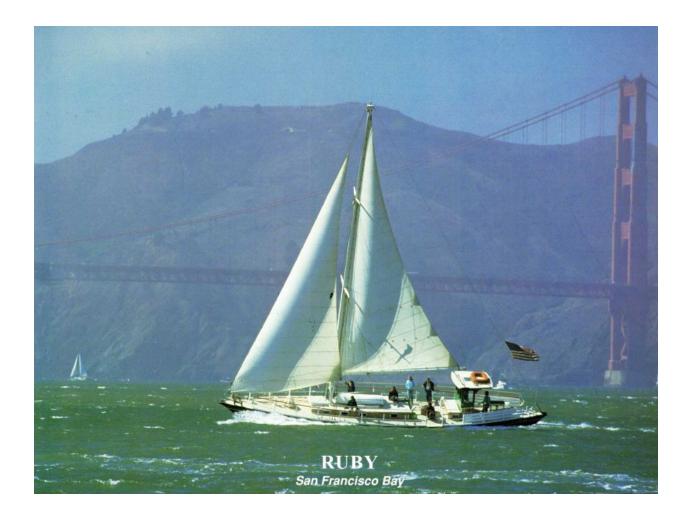




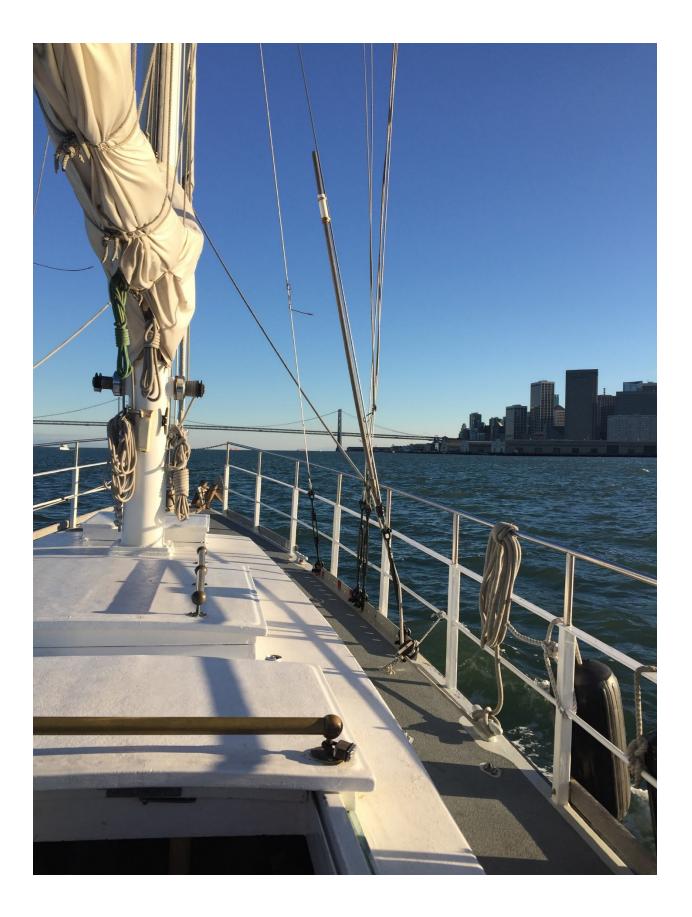






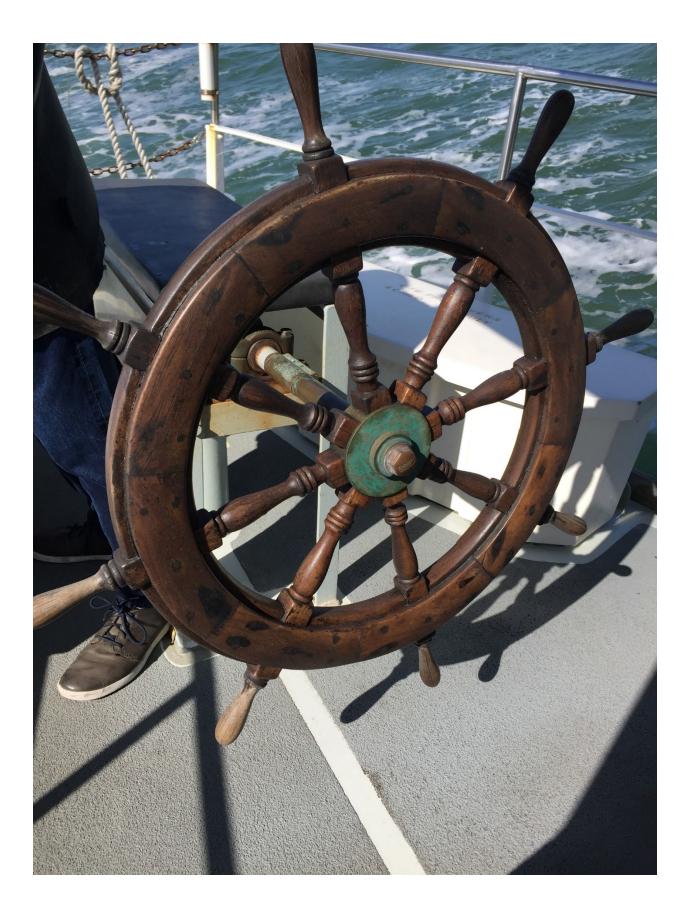


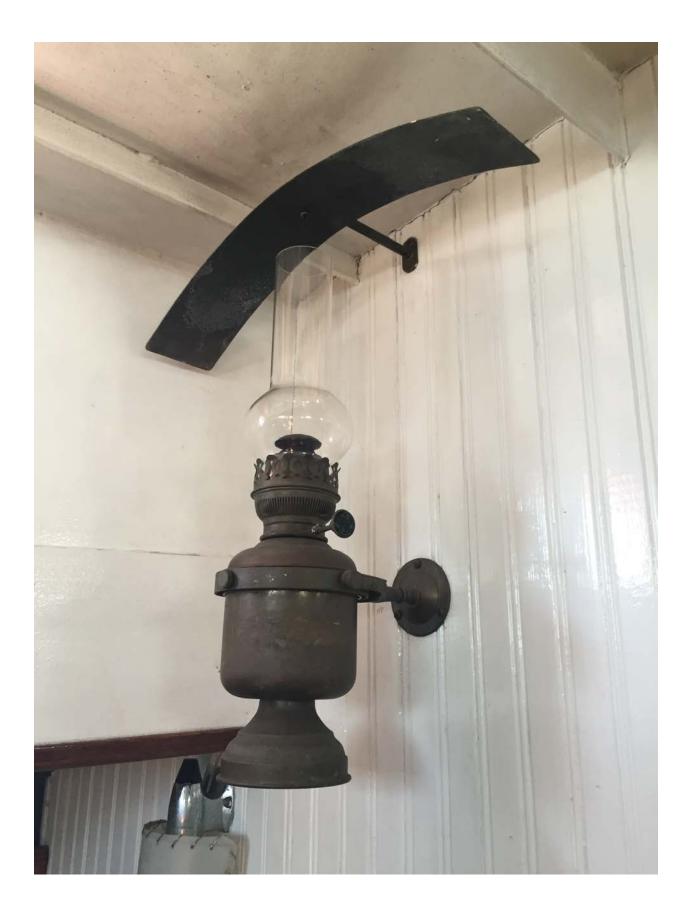




















perienced sailor oitches the bay to visitors

By Diane Daniel Correspondent

t's crystal clear, the Golden-Gate glistening.

Seemingly a million sails fill the China-blue bay, grabbing at your heart strings, as they heel.in. Millerick to build the basic hull. the breeze.

Wouldn't it be fun You've thought it a thousand times, but never have been serious.

Now you can be. A young - but experienced - sailor is making the traditional San Francisco sport available by charter. He is the only one in the City to make the offer to groups of 30.

At the same time, he is living his own fantasy, piloting the gleaming 64-foot sloop he both designed and built.

"I wanted to build my dream boat. But I had to make it pay off and charters were the only way I could justify it," says the Joshua Pryor. 34, as he guides his Ruby under the Bay Bridge.

There are the courteous exchanges of waves with passing vessels, the comparisons of equipment and rigging.

But it doesn't take long to realize that the ride will be extraordinary You are not only treating yourself like a king, you look like one too.

'You can see us all the way across the bay," says the captain in a mat-ter-of-fact way. "We're long and low and sleek and it looks like we're going about three times as fast as we are. You see how everybody looks at us."

Of the thousands of boats on the bay, virtually all are production models. The well-versed seaman can look at one and spout off its name as though it were a Ford or Chevrolet

The Ruby is unique and that makes Joshua proud.

She's an amalgamation of years of ideas. The basic design comes from a Columbian canoa, meaning canoe in Spanish.

"It was the most attractive boat there," comments Joshua of the five years he spent in the Caribbean. That's how the vessel got its double endedness and the blue, yellow and green colors that stripe its hull.

The native Californian and sculpture graduate of the San Francisco Art Institute hired Contati steel workers Don and Jeff

From there he was on his own. handcrafting the mahogany cabin, fabricating an accessible engine

room and installing an elaborate sound system,

All the time he drove taxis, taught classes and worked as a job boss with a construction company to support his penchant plus his wife and daughter Willie Mae.

He incorporated a 60-foot freeway light pole for a fraction of the cost of a traditional steel mast and installed mineral paper that roofers use in construction as an inexpensive alternative to fancy decking.

He determined the size of his craft. based on the sail size an individual could handle. "I didn't want to be out at sea, have someone get hurt and be unable to handle it alone. I didn't want the size to be a liability," explains Joshua.

Yes, he says, he could have worked with someone else's design or remodeled an older craft, but it wouldn't offer the satisfaction of starting from scratch.

What he has, he figures, would cost a quarter of a million-dollars to buy.

Joshua was introduced to sailing at age 6 by his grandfather, Scrubby Wellman, a veteran seaman who won the Trans Atlantic race when he was 75.

Josua grew up along the Southern California beach, was a fisherman, then a surfer and sailed with his grandfather during summers in such races as the Trans Atlantic, the Mackinaw and Newport Bermuda.

"I lost interest in sailing when I was in art school in the '60s. It was the farthest thing from my mind. It was not relevant. Then Lentered the graduate department in film study and made a couple short films," he says.

On a trip home he chanced on an old girlfriend who invited him to party for a group of racing sailors. meet her current beau. He owned a 60-foot schooner that was about to embark on a 5-year odyssey around the world.

"I was the right guy at the time, He was interested in me because he wanted a documentary film made. That was 1970. I packed my camera Ruby is \$20 per person or \$35 per

did a lot of crewing and little film, hight time ride. Catered food and ing. ing.

"What amazed me," he recalls, was that I found I enjoyed the sailing more and more. It was cruising on the open sea and was more adventurous than the racing and day sailing I was used to."

When he reached Panama eight months later he jumped ship and signed on with the crew of an old 40foot mahogany yawl.

In no time Joshua was selling his camera equipment for the \$12,000 needed to purchase the bedraggled essel named Cindy.

What he discovered were secret compartments crammed with guns and dynamite and some hastily repaired bullet holes in the hull, a legacy of the past owner who needed quick cash to pay off debts and escape the authorities.

Joshua spent nine months learing boat repair and maintenace, then years mastering the craft. Time wore on and homesickness for San Francisco set in.

"As a child of the '60s, I felt I had a social obligation to come back. I had had a lot of fun and high adventures," he says, but now, as a married man, it was time to settle down.

One more turn as first mate aboard a 102-feet Baltic trader, together with the sale of his boat, provided the capital to begin building his dream.

Joshua is equipped to handle gatherings ranging from corporate business meetings to children's birthday parties.

One time he hosted a bachelo "I really felt silly when I realized who they were. Over the phone I hav told them to be sure to wear warn clothing and what to expect," re

members the captain.

The Herald. Tuesday, April 6

A 11/2 hour lunch sail aboard the

gear and was gone." says Joshua. - It soon became apparent that only one other 'aboard knew anything or \$300 for either an afternoon about sailing. That meant Joshua cruise from 3 p.m. to sunset or a

For information phone Joshua at his China Basin office 861-2165.

S.F. Chronicle 4-12-82 Wind, Rain Hamper Farallon Island Race

By Kimball Livingston

The fierce storm that battered Northern California disrupted Saturday's Farallones yacht race, dispersing nearly half of the regatta and leaving two boats still unaccounted for yesterday. (For more on the missing vessels, see Page 3, Main News.)

According to the U.S. pilot book for the Pacific Coast, "Spring storms are rare in the Gulf of the Farallones." But the weekend's "rare" storm made things tough for the Bay Area Multihull Association, sponsors of the frightening, gear-busting Doublehanded Farallones Race.

The 57-mile loop around the Southeast Farallon Island began soon after 8 a.m. Saturday, with 127 yachts from 22 to 52 feet, and two crew members per boat. Regatta committeeman Kern Hendricks started the race aboard his own trimaran, Orion. The weather service at that time spoke of "small-craft advisories," indicating the blustery winds that Northfern California sailors take for granted.

"It was a spinnaker start in light air "and a warm, drizzly rain," said Hendricks. "Then at 10 a.m., the weather "channel changed its tune. They started "broadcasting rain and gale warnings. That's when we came home."

Only 52 of the 127 starters finished the race. Others abandoned the effort. Four multihulls went aground, apparently unable to make headway against the wind that was blowing them onto the shore. A fifth multihull, the Catawampus, capsized, but the crew was rescued by other racers.

Most of the boats that got into trouble in the strong southerly winds, according to Hendricks, were boats that salled north of the Golden Gate and

BOATING

could not beat south again to their point of departure.

Racing with two aboard is inherently safer than racing singlehanded, as in last weekend's Farallones race. If one person is in trouble, the other can help. A single slip can cause trouble, though for most of the finishers in the Doublehanded Farallones Race, the contest was hard but undramatic.

Roger Heath and Ben Jeffries sailed Heath's Moore 24, Flying Circus, through the entire course. Of eight identical boats, "I think three of the Moores finished," said Heath. "and we were first in. When we got back and heard about the boats in trouble, I was glad I hadn't been on a bigger boat — it's too hard to handle the equipment."

While worried families waited elsewhere for word of crews unaccounted for, Heath also worried — and speculated on the outcome of the race that he had come through in good order, a race that will probably be settled in his division by a matter of seconds after 57 arduous miles.

"It was very cold going out," said Heath. "There was so much rain, it was hard to tell when the rain stopped. After all, the rain was horizontal.

"But the nastiest part was the gusts coming through the slots in the island. It was sort of like Army life. I wouldn't tell anyone to go, but I learned something out there."

Included in the instructions for every regatta is the statement, "It shall be the sole responsibility of the crew to decide whether to start or continue a race."

1984 San Francisco Examiner

Out to lunch Bea Pixa

Sea change

LUNCH ABOARD THE RUBY, berthed at China Basin, 185 Berry St. (one block from the S.P. Dupot). Lunch sails scheduled Monday through Friday, 12:30 to 2 p.m. Beer and wine. No wheelchair access. Tel: 361-2165.

Some good food, a glass of wine, a leisureiy sail, congenial company and a seagoing perspective of The City are part of a package offered by Captain Joshua Pryor, the gingerbearded skipper-owner of a 63-foot steel sloop called The Ruby. The whole experience, an exciting departure from the usual restaurant setting, goes for a remarkably reasonable \$20 per person,

Having sailed since he was 6, Pryor is an able seaman. He was the winner of this year's treacherous race to the Farralon Islands, an event in which half the boats dropped out and two were lost in the storm.

Coast Guard-certified and licensed, The Ruby is immaculately maintained and designed for the comfort of landlubbers. Lunch may be munched on deck, or below in the handsome mahogany salon. A sound system plays a variety of music, from Mozart to Mexican. Passengers may also bring along their favorite tapes.

The white lunch box, tied with a red satin ribbon, is packed by the popular Augusta's South of Market Grill, one of Folson Street's finest cateries. After the initial complimentary glass of wine, poured by a genial sait named Red who's attired in a heavy seaman's sweater and watch cap, a nominal charge is made for other beverages. (Wine, for instance, is \$1 a glass, \$3 a bottle.)

Preceded by nibbles of goldfish-shaped cheese crackers, the meal typically consists of a chubby mortadella and provolone sandwich on an excellent length of baguette, smeared with mayonnaise and a good mustard. There's also a pasta salad and a chewy, rich, sugar-dusted brownie for dessert. The pasta salad, on a recent excursion, was an inventive, delicious mixture of shells, chicken, water chestnuts, pineapple, snow peas and green beans. Any leftovers go to the hovering gulls. I had nothing to offer.)

No nautical dress codes are enforced, though Capt. Josh looks properly seafaring in his Greek skipper's cap. Customers appear in all manner of garb, from business attire to jeans (however, keep in mind you must negotiate a ladder to get aboard.) Extra coats, sweaters and hats are provided for those who come unprepared.

For the lunch-time sail, the Ruby motors under the Third Street bridge, which opens to three blasts of a foghorn. A sail goes up soon after, as the vessel heads past the downtown skyline (passengers get a heady whiff of roasting coffee from the Hills Bros. plant), past Telegraph Hill, Russian Hill and Alcatraz. At the Hyde Street Pier, she comes about and starts heading back. Traffic is limited to the activity of seals, sea birds and a few other boats.

It's a marvelously relaxing, offbeat way to view San Francisco (and show it off to vistors) while savoring a simple, well prepared lunch. Highly recommended! Lunch sail reservations must be made a day in advance.

Food **** Atmosphere **** Service **** Hygiene **** San Francisco Examiner / Thursday, August 15, 1985

The flip side of ship parade: 'Like tanks in Golden Gate Park'

N THE BAY, which resembled a nautical Red Square yesterday, the captain of the good ship Ruby, a dedicated pleasure craft, took a squint at all the military flotsam parading in his path and ordered the Japanese battle flag hoisted on the spreader.

This was not, on balance, an unpatriotic gesture. Yesterday the great Bay was afloat with the afflatus of militarism. Commerce was disrupted and ferries were alted so the Navy could show off its big ships round and round in a circle like steel elephants holding each other's anchor chains. On shore, adoring crowds strained to see the catwhiskers of the enlisted men in dress whites, lining the decks of the battleship New Jersey. They looked from afar like little tin sailors.

"And to think that this sort of show is the very sort of stuff we make fun of the Russians for," Capt. Josh Pryor said at the helm of the Ruby.

The Bay was wild and windy, and he was steering a tight course past the New Jersey, which was lazing in the water like an oversized dog of war with its 16-inch guns up in the air.

"On board the Rüby, can you hear me? You are too close to the New Jersey. There is a 200-yard safety zone. You cannot come nearer."

The metallic words came over the loudspeaker of a Coast Guard picket boat that had zoomed across our bow. A Coast Guard man in a red life jacket and blue cap stood on the deck fingering the gun in his holster. He looked more than curiously at the Japanese battle flag flapping on the spreader in tune with the American flag above the bow. This was, after all, V-J Day.

A Coast Guard woman stared out of the picket-boat cabin through salt-stained aviator glasses. A second picket boat bugged our stern. The geopolitics of security did not impress Capt. Josh, who sails the Bay every day, carrying passengers on a luncheon sail from China Basin to Alcrataz. The New Jersey was in his way.

The captain squinted his pale blue peepers at the big guns of the New Jersey. "What the hell do they think we're going to do, sink her?" he said. Capt. Josh built the 64-foot Ruby himself, which has a hull of 3/16-inch metal plates. The 58,000-ton New Jersey is protected by a 17-inch steel girdle.

"Oh, my," said Judy DeHaemer, a Navy lifer lady who had paid her way aboard the Ruby to see the fleet from an advantage better than the bleacher seats the public was afforded at Crissy Field to watch yesterday's show-and-tell.

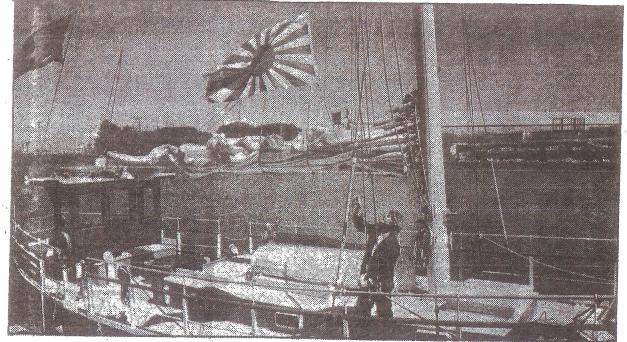
Her husband had been the captain of a Navy nuke submarine, she said — just like the one whose sinister black top hat was bobbing above the wave behind the New Jersey. You couldn't see the sub too well from where the landlubbing civilians could gawk. You had to be out there on the Bay close to see its ugly black snout. I guess we were too close.

"Oh, Christ, they're going to go for the water cannons again," said Capt. Josh. He said the other day the Coast Guardies had flashed their blue lights like a cop car and went to battle stations and manned water cannons when the Ruby, on its daily milk run, ventured near the New Jersey.

"Request permission to come about," the captain

Warren Hinckle





Examiner/Craio Los

Capt. Josh Pryor hoists a Japanese battle flag to the spreader of his 64-foot sailboat, Ruby

jibe," he told his crew.

"This is exciting," said the wife of the Navy lifer.

The Ruby sailed down the Bay past the anchored nuke carrier Enterprise, where the high civilian brass were living it up. Here, surprisingly, security was lighter. A couple of wet Coast Guard guys in a gray rubber boat powered pathetically by an outboard motor tried to wave us away. A lone man at the oars of a wooden boat from the San Francisco Rowing Club bobbed in the waves.

The New Jersey had come full circle in the elephant train sea parade and was now coming straight at us. It looked slimmer head-on.

"Looks like the Bismarck to me," Capt. Josh said, shaking his redbearded Welsh head at the macho naval show. The man is not a pacifist; he is a practicalist: "Hey, the world is all out of people who are impressed by big guns, man - this is modern

asked the picket boat. "Stand by to times, you can carry an A-bomb in a suitcase."

We passed Fort Mason. Rolph Hoffschildt, a City Cab man sailing for the day, who was aboard Ruby. had a story that perhaps rings more true about the vagaries of war than the high-blown political rhetoric of yesterday. When the troops were disembarking at the end of the Korean War, my favorite cabbie, Jimmy the Glove, was there to pick them up. Jimmy said that "the schmucks took them to the airport." But he took the soldiers to a used-car salesman on Van Ness Avenue and told them, "You fought for your country, now drive across it," - and collected 10 percent of the down the soldiers made on their new used cars.

We approached the Third Street drawbridge and honked for it to open. The fleet was behind us, but-Capt. Josh was upset. He said he sails the Bay more than anyone he knows and has experienced a drastically increased militarization of these oncepeaceful waters.

"It's not just the big nuke ships. Out there you see subs popping up all the time off Alcatraz in little mystery

deals - a Navy tug comes out and they exchange papers and they're off," he said.

What bothered Capt. Josh was that the Bay was one of the world's great water recreation areas that was in his view being gradually polluted by the military.

"It's like driving tanks through Golden Gate Park," he said.

The drawbridge yawned open, and we entered the China Basin channel where the Ruby berths. The captain has a Japanese deckhand and was out of sorts that the Coast Guard apparently didn't think the Japanese flag he was flying was appropriate.

There were, he said, two sides in the war whose end we were celebrating with such pomp and circumstance. Even Ronald Reagan went to a German cemetery to lay a burythe-hatchet wreath, but Japanese were excluded from yesterday's triumphal ceremonies aboard the Enterprise. The Navy is at its finest a. traditional organization. It might have found a better V-J Day tradition than the West Coast one of putting the Japanese in a closet.

San Francisco Chronicle DATEBOOK

The Best Lunches on the Bay Having lunch on a boat is also a feast for the eyes

BY JERRY CARROLL

Chronicle Staff Writer

Service and Sprace and

On the yacht Ruby, food comes in second — robust deli sandwiches, Greek olives, kosher pickles, cookies — but it's my favorite lunch on the bay. Burly skipper Josh Pryor keeps the steel vessel he designed and built himself tied up at the foot of Mariposa Street in China Basin, just down the dock from the popular Mission Rock Resort restaurant.

His boat, which finished first one year in the race to the Farallones and back, is stout enough so you don't have to worry about a knockdown in a gust, but small enough to give a sense of why people become slaves to sailing. The Ruby is certified to carry passengers by the Coast Guard. "They use the same criteria on me as on the ferries," said Pryor.

The day I went out I was surprised to find Margo St. James on board. The 50ish, one-time hooker who organized prostitutes into a pressure group back in the 1970s before going off to live in the south of France for eight years, was serving beer and wine at the bar down below. (You need to be fairly limber to negotiate the ladder you back down.) She told me she hopes to get a job with the fire department and put in enough time to get a pension — "Five years," she said.

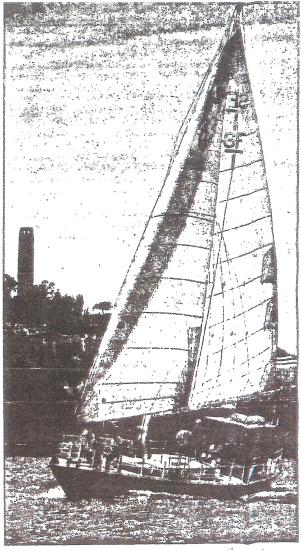
We motored out of China Basin and raised sail near the Bay Bridge. The Ruby whispers through the water and you can hear the gulls and other sounds of the bay.

Pryor keeps warm jackets aboard in case they're needed, as they were this day. An occasional sheet of spray will come over the bow, dousing the unwary. But it's all part of the experience.

Pryor is a former cab driver, construction worker and art college teacher with a gift for gab. He'll point out the sights or keep his mouth shut, according to how he gauges the mood of his passengers. Some days there are as few as two, some days as many as 30. You can make a reservation as late as the day of the sail.

"I get a lot of office parties," he says.

(The Ruby's cruises cost \$30 and last 2½ hours. Departure is 12:30 p.m. Telephone 415-861-2165).



BY VINCE MAGGIORA/INE CHRONICLE

The Ruby, which once won the race to Have Farallones and back, offers 2½-hour cruisses and hearty deli sandwiches

CRUISES: Swift Sailing on the Ruby



The City and County of San Francisco



Presented To

Josh Pryor July 28, 2005

Whereas, on behalf of the City and County of San Francisco, I am pleased to recognize and honor Josh Pryor of the Ruby for participating in the intercultural event Sail San Francisco! 2005 in support of maritime history and cultural exchange as a platform for peace. Congratulations and best wishes!



THEREFORE, I have hereunto set my hand and caused the Seal of the City and County of San Francisco to be affixed.

Gavin Newsom Mayor



VER Hoover Middle School

2290 14th Avenue San Francisco, CA 94116-1841 Phone: 415-759-2783 Fax: 415-759-2881

To Whom it May Concern,

January 17th, 2017

My name is Elizabeth Abrahams and I am writing this letter to stress the importance that the Yacht Ruby continues to be able to operate in the South Basin area of the San Francisco Waterfront.

I have been a teacher for the SFUSD for the last 20 years. Before teaching I crewed on the Yacht Ruby from 1981- 1997. During that time I completed my degrees in Biology and Education at San Francisco State University. I learned so much by crewing on the Ruby about making sailing accessible to the public and about the history of the San Francisco Waterfront. When there were no passengers aboard the Ruby. I loved to read the book "The Barbary Coast" by Herbert Asbury.

The Ruby has donated many sails to fundraisers and various school groups over these years. The experience of making sailing on the San Francisco Bay a reality to all, regardless of age, gender, ethnicity and experience left a lasting impact on me. As a teacher, I created an award winning program called "Project San Francisco" which brought thousands of school youth from San Francisco Public Schools out to the "Barbary Coast". The stories they learn about historical sites along the waterfront, the historic Third Street Bridge and the Yacht Ruby has given them something tangible that connects them to the rich history of San Francisco.

As the waterfront is continually changing and growing, we are burying more and more of this unique part of San Francisco. We need to preserve these reminders of how things once were to teach our students to be good citizens and what made San Francisco a world class city.

Sincerely, Liz Abrahams Teacher SFUSD