NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

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	EDERAL PROPERTIES			
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1 NAME				
	ow Schooner Alma			
	ow schoolier Aima			
AND/OR COMMON Alm	ma			
2 LOCATION				
STREET & NUMBER	Hyde Street Pier		NOT FOR PUBLICATION	
CITY, TOWN	San Francisco		CONGRESSIONAL DISTR	ICT
CTATE		_ VICINITY OF	COUNTY	CODE
STATE	California	06	San Francisco	075
3 CLASSIFIC	ATION			
CATEGORY	OWNERSHIP	STATUS	PRES	ENT USE
DISTRICT	X_PUBLIC	DCCUPIED	AGRICULTURE	X_MUSEUM
BUILDING(S)	PRIVATE	X_UNOCCUPIED	COMMERCIAL	PARK
X STRUCTURE	BOTH	WORK IN PROGRESS	EDUCATIONAL	PRIVATE RESIDENC
SITE	PUBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	RELIGIOUS
OBJECT	IN PROCESS	X_YES: RESTRICTED	X_GOVERNMENT	SCIENTIFIC
	BEING CONSIDERED	YES: UNRESTRICTED	_INDUSTRIAL	_TRANSPORTATION
		NO	MILITARY	DTHER
4 AGENCY				
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REGIONAL HEADQUA	RTERS: (If applicable) Nation	nal Park Service,	Western Region	
STREET & NUMBER	450 Goldon Gato Ave	Par 2(0(2		
	450 Golden Gate Ave	enue, Box 36063		
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6 REPRESEN	TATION IN EXIST	ING SURVEYS		
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DEPDSITORY FOR SURVEY RECORDS	National Park Servi	.c e		
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CONDITION

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DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The scow schooner Alma, a floating vessel owned and maintained by the National Park Service as part of the collection of the National Maritime Museum, San Francisco, is moored alongside Hyde Street Pier at San Francisco when she is not sailing on the bay or visiting San Francisco Bay, Carquinez Straits, or Sacramento River ports.

Alma as Built and Modified

As built in 1891, Alma was a typical flat-bottomed, square-ended scow 59 feet in length, with a 22.6-foot beam, and a 4-foot depth of hold. Alma's registered tonnage was 41 gross and 39 net. [1] Alma carried two masts, schooner-rigged, with a single maintop-mast. Alma was average in size, but she was unusual in that, unlike many of the scow schooners then built on the bay, she had a cross-planked bottom. This construction, requiring heavier scantlings, may have contributed to her longevity. [2]

Alma's masts and bowsprit were removed in 1918 when she was converted into a barge. Her main hatch was also enlarged at this time. [3] In 1926, she was modified again, becoming an oyster shell dredger. A forty-horsepower gas engine was installed to port of Alma's centerline, driving a single propeller. Eight-foot bulwarks were erected amidships; living quarters with a wheelhouse mounted above were built aft; and a shell pump and washing belt were installed forward. In 1951 Alma's gas engine was replaced by a more powerful diesel, and a matching engine and propeller were added to starboard. Her shell handling equipment was also improved. It was in this configuration that Alma was laid-up in 1957. [4]

Restoration of Alma

Following her acquisition by the State of California in 1959, Alma's dredging machinery and deckhouse were removed. For several years Alma served as a floating work platform for other museum vessels. In 1964 Alma was lifted from the water and placed on the pier to begin restoration. Working from old photos, internal evidence, register information, and the plans of other scow schooners made by the W.P.A. Historic American Merchant Marine Survey, Alma was slowly returned to her original configuration. Portions of scow hulks around the bay were used to replace missing or damaged fittings. Alma's restoration was completed in

8 SIGNIFICANCE

PERIOD	AF	REAS OF SIGNIFICANCE CH	IECK AND JUSTIFY BELOW	
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1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE
1600-1699	x_ARCHITECTURE (naval)	EDUCATION	MILITARY	_SOCIAL/HUMANITARIAN
_1700-1799	ART	ENGINEERING	MUSIC	THEATER
<u>X</u> 1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	X TRANSPORTATION
<u>X</u> 1900-	COMMUNICATIONS	INOUSTRY	POLITICS/GOVERNMENT	_OTHER (SPECIEV)
		INVENTION		
SPECIFIC DA	TES 1891-1926	BUILDER/ARCI	HITECT Fred Siemer	

STATEMENT OF SIGNIFICANCE

The 1891 scow schooner <u>Alma</u>, a historic vessel moored as part of the collection of the National Maritime Museum, San Francisco, is an excellent example of a once-common, vernacular work-a-day craft found on the major waterways of the United States from Colonial times through the 20th century. While built and operated on San Francisco Bay, <u>Alma</u> is in many ways indistinguishable from scows which were launched and sailed on Chesapeake Bay, the Gulf Coast, the Great Lakes, inland rivers, and other coastal waters of the United States. No scow schooners save <u>Alma</u> are known to survive afloat in the United States. Possessing a high level of integrity, <u>Alma</u> is of exceptional NATIONAL significance as the only American scow schooner surviving as a floating, intact representative of her type.

The preceding statement of significance is based on the more detailed statements which follow.

THE ORIGIN AND DEVELOPMENT OF SCOW SCHOONERS

Flat bottomed sailing craft possess two advantages that have caused them to be used in regions throughout North America since the late eighteenth century. One is that the simplicity of the hull form allows it to be produced quickly and at low cost. The other is that the flat bottom and broad beam permit large cargoes to be carried in shallow waters. This combination of advantages was valuable in every coastal region of North America, as well as many of the inland waterways. Small changes in detail adapted sailing scows to various trades, creating numerous sub-types. Designs varied widely, as builders applied individual inspiration to their work. [1]

The scow hull form was well known in Europe before becoming popular in America early in the eighteenth century. In the American Colonies they were known as flats, or radeux, and occasionally as gondalows. Because of their peculiar advantages, both the British and the Colonials built armed scows on Lake Champlain in 1776. [2]

SEE CONTINUATION SHEET

9 MAJOR BIBLIOGRAPHICAL REFERENCES

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James P. Delgad ORGANIZATION National Park S		ritime Historian an	d Kevin J. Foster, Historia OATE July 1, 1987
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1968, and she was returned to the water. Since then she has been maintained in an historic fashion, with in-kind replacement of materials in the manner of her original construction. While externally retaining her historic "as-built" appearance, Alma retains a diesel engine and a propeller for operating on the bay. [5]

FOOTNOTES

- Annual List of Merchant Vessels of the United States...
 (Washington, D.C.: Government Printing Office, 1900) p. 10.
- Roger Olmsted, "The Square-Toed Packets of San Francisco Bay,"

 <u>California Historical Society Quarterly</u>, LI (1) Spring 1971, pp. 36-39; Stephen E. Levingston, <u>Historic Ships of San Francisco</u> (San Francisco: Chronicle Books, 1984) p.70.
- Barbara Fetesoff, "San Francisco's Alma," The Woodenboat I (3)
 April 1980, pp. 10-12; Peter J. Gambetta Oral History
 Interview by Barbara Fetesoff, January 1, 1975, Transcript pp.
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 States... (Washington, D.C.: Government Printing Office, 1931)
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Most scows were built upside down to simplify construction. Planks were laid athwartships over multiple keelsons, rather than parallel to the centerline, as in round-bottom hull construction. After planking of the sides and bottom, the hull was turned over and completed. A few localities developed types that had lengthwise planking, but this was more costly and required that the scow be built right side up. [3]

The earliest American sailing scows carried a single, loose-footed spritsail, as was common in Europe. Later there were scows rigged as schooners, ketches, brigs, and even full-rigged ships; but simple sloop and schooner rigs predominated. [4]

During the 1800s, scow sloops and schooners developed further and spread to the farthest settlements on the American continent. In Maine they were known as "square-toed frigates"; in Massachusetts they were called "granite sloops"; in Georgia, "rice flats"; and in Texas, "buttheaders". In California they were simply "scow schooners." Built in great numbers to carry men and materials to and from the gold fields, these vessels played an important role in the development of California during the flood of immigration occasioned by the discovery of gold in 1848. [5]

After the Gold Rush, scow schooners continued to flourish. By 1880 there were approximately 250 sailing scows in San Francisco Bay. They ranged in size from scow sloops under forty feet long, up to a few monsters of nearly ninety feet. [6] Scows were the predominant work-a-day craft on San Francisco Bay, carrying produce, firewood, shells, bricks, and other bulk cargoes on the shallow waters of the bay between a variety of ports. Until the advent of major roads and freighting facilities on land in the first decades of the 20th century, scow schooners on San Francisco Bay, as was the case elsewhere in the country, carried the bulk of goods now transported by trucks.

Construction and Career of Alma

Alma was built in 1891 by Fred Siemer, a German immigrant, behind his house near Hunters Point, on San Francisco Bay. In addition to Alma, which was named for his granddaughter, Siemer built one other scow schooner, Adelia. Both were built for Siemer's sonin-law, James Peterson. [7]

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Until July, 1918, Alma hauled freight for Peterson under sail. Then, along with Peterson's other five scows, she was converted to a barge. [8] Alma continued to work as a barge until 1926, when she was sold to Frank Resech, of Petaluma, who modified her for use as an oyster shell dredger. A forty-horsepower gas engine and a shell pump and washing belt were installed forward. Oyster shells were dredged from shoals on the Bay, washed, and deposited in the hold for the trip to Petaluma's chicken ranches, where they were incorporated into chicken feed, thus providing calcium and promoting hard egg shells. [9]

Mr. and Mrs. Resech lived aboard until 1944, when Alma was sold to Peter J. Gambetta. Mr. Gambetta kept Alma dredging shells, improving her machinery in 1951. The 1951 modifications allowed Alma to continue working until 1957, thus becoming the last San Francisco scow schooner in operation. In that year, however, Alma was laid up on the Alviso mudflats, where she stayed until August, 1959, when she was sold once again. [10]

Alma's new owner, the California State Division of Beaches and Parks, pulled her off the mudflats and towed her to the San Francisco Maritime State Historic Park. Her dredging machinery and deckhouse were removed and for several years Alma served as a floating work platform for other museum vessels. In 1964 Alma's restoration was commenced. Initial restoration was completed in 1968 and she was returned to the water. The following year Alma received a new suit of sails and began the program to interpret the history of working sail that continues to the present. [11]

FOOTNOTES

- Howard Irving Chapelle, <u>American Small Sailing Craft: Their Design, Development, and Construction</u> (New York: W.W. Norton & Co., 1951) pp. 45-46, 50, and 51.
- Howard Irving Chapelle, The History of the American Sailing
 Navy: The Ships and their Development (New York: Bonanza Books, 1949) pp. 104 and 105; Chapelle, American Small Sailing Craft, pp. 29, and 32; Rusty Fleetwood, Tidecraft: the Boats of Lower South Carolina and Georgia (Savannah, Georgia: Coastal Heritage Society, 1982) pp. 49-50, and 87.

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Golden Gate NRA - U.S. Department of the Interior, National Park Service - Photo by Richard Frear







(1971-72)SCOW SCHOONER ALMA Golden Gate NRA, SantFrancisco, CA Photo by National Maritime Museum

