MAJOR U.S. SHIPBUILDING AND REPAIR BASE FACILITIES
Executive Summary
1999 UPDATE
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AND
REPAIR BASE FACILITIES
Executive Summary

1999 UPDATE

Prepared by
Division of Cost Analysis & Production
Office of Ship Construction

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MAJOR U.S. PRIVATE SHIPBUILDING AND REPAIR BASE FACILITIES

1999 UPDATE

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EXECUTIVE SUMMARY
CHANGES TO MAJOR SHIPBUILDING AND REPAIR BASE IN 1999

SHIYARDS ADDED: (4)

GULF COASTS:
Bludworth Bond Shipyard, Texas City Yard - Houston, TX
Bollinger Algiers, LLC - New Orleans, LA
Bollinger Fourchon, LLC - Golden Meadow, LA
Sabine Offshore Services, Inc. - Sabine Pass, TX

SHIYARDS CLOSED: (1)

NON-CONUS:
Perez Y Cia, De Puerto Rico, Inc. - San Juan, PR

SHIYARDS REOPENED:
NONE

SHIYARDS DELETED:
NONE
# EXECUTIVE SUMMARY

## FACILITY INFORMATION

### NUMBER OF PRIVATE SHIPYARDS IN THE MAJOR SHIPBUILDING AND REPAIR BASE

<table>
<thead>
<tr>
<th></th>
<th>OCTOBER 1999</th>
<th>OCTOBER 1982</th>
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</thead>
<tbody>
<tr>
<td>EAST COAST</td>
<td>28</td>
<td>41</td>
</tr>
<tr>
<td>GULF COAST</td>
<td>39</td>
<td>33</td>
</tr>
<tr>
<td>WEST COAST</td>
<td>18</td>
<td>27</td>
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<tr>
<td>GREAT LAKES</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>NON-CONUS</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>95</td>
<td>110</td>
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</table>

### CHANGES IN THE MAJOR SHIPBUILDING AND REPAIR BASE SINCE OCTOBER 1982

<table>
<thead>
<tr>
<th></th>
<th>CLOSED</th>
<th>RE-OPENED</th>
<th>ADDED</th>
<th>DELETED</th>
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<tbody>
<tr>
<td>EAST COAST</td>
<td>37</td>
<td>11</td>
<td>19</td>
<td>6</td>
</tr>
<tr>
<td>GULF COAST</td>
<td>20</td>
<td>8</td>
<td>30</td>
<td>11</td>
</tr>
<tr>
<td>WEST COAST</td>
<td>16</td>
<td>1</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>GREAT LAKES</td>
<td>6</td>
<td>2</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>NON-CONUS</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>81</td>
<td>23</td>
<td>71</td>
<td>28</td>
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U.S. PRIVATE SHIPYARDS
MAJOR SHIPBUILDING AND REPAIR BASE - OCTOBER 1999

**Shipbuilding**: 20
**Repair w/Drydock**: 33
**Topside Repair**: 42

<table>
<thead>
<tr>
<th>SHIPYARD TYPE</th>
<th>NUMBER OF SHIPYARDS</th>
</tr>
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<tbody>
<tr>
<td>Shipbuilding</td>
<td>20</td>
</tr>
<tr>
<td>Repair w/Drydock</td>
<td>33</td>
</tr>
<tr>
<td>Topside Repair</td>
<td>42</td>
</tr>
</tbody>
</table>
PRIVATE SHIPYARDS BY CLASSIFICATION
MAJOR SHIPBUILDING AND REPAIR BASE - OCTOBER 1999

NUMBER OF SHIPYARDS

25
20
15
10
5
0

East Coast
Gulf Coast
West Coast
Great Lakes
Non-Conus

REGIONS

Topside Repair
Repair w/Drydock
Shipbuilding

10
13
9
8
7
8
3
2
1
1
2
0
MAJOR SHIPBUILDING AND REPAIR BASE FACILITIES
U.S. PRIVATE SHIPYARDS
OCTOBER 1982 VS. OCTOBER 1999

<table>
<thead>
<tr>
<th>TYPE OF FACILITIES</th>
<th>NUMBER OF POSITIONS</th>
<th>1982</th>
<th>1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graving Dock</td>
<td>53</td>
<td>30</td>
<td>22</td>
</tr>
<tr>
<td>Floating Dock</td>
<td>68</td>
<td>50</td>
<td>22</td>
</tr>
<tr>
<td>Shipway</td>
<td>65</td>
<td>20</td>
<td>22</td>
</tr>
<tr>
<td>Land Level</td>
<td></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Marine Rail</td>
<td></td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Syncrolift</td>
<td></td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>
PRODUCTION WORKERS IN PRIVATE SHIPYARDS
MAJOR SHIPBUILDING AND REPAIR BASE - OCTOBER 1999

WORKERS (THOUSANDS)

REGION

EAST COAST
GULF COAST
WEST COAST
GREAT LAKES
NON-CO NUS

24.0
20.6
6.9
0.8
0.2

0
5
10
15
20
25
30
35
PRODUCTION WORKERS IN PRIVATE SHIPYARDS
MAJOR SHIPBUILDING AND REPAIR BASE: 1982 - 1999
PRODUCTION WORKERS IN PRIVATE SHIPYARDS
MAJOR SHIPBUILDING AND REPAIR BASE: 1982 vs. 1999

WORKERS (THOUSANDS)

REGION

EAST COAST
GULF COAST
WEST COAST
GREAT LAKES
NON-CONUS

1982
24.0
22.9
23.7
2.3
0.5

1999
63.1
20.6
6.9
0.8
0.2
SHIPYARD CLASSIFICATION DEFINITIONS

CLASSIFICATION DEFINITIONS:

- Shipbuilding: Facilities that are open, having at least one construction position capable of accommodating a ship 122 meters in length and over. With few exceptions, these shipbuilding facilities may also be major repair facilities with drydocking capability.

- Repair (With Drydocking): Drydocking facilities for ships 122 meters in length and over. These facilities may also be capable of constructing vessels less than 122 meters in length.

- Topsides Repair: Facilities with sufficient berth/berth space for topside repair of ships 122 meters in length and over. These facilities may also be capable of constructing and/or drydocking vessels less than 122 meters in length.

GENERAL REQUIREMENTS

The shipyard must own or have in place a long-term lease (1 year or more) on the facility in which they intend to accomplish the work.

There must be no dimensional obstructions in the waterway leading to open ocean (i.e., locks, bridges).

Water depth in the channel to the facility must be a minimum of 3.7 meters.

NOTE

The following criteria were developed to establish the maximum ship size that could be accommodated in each drydock:

For floating drydocks, the maximum ship length is as given by the shipyards. The maximum beam was determined by allowing a 0.6 meter clearance at each side between the ship and wing wall.

For graving docks, the maximum ship length was determined by allowing a 0.6 meter clearance at each end between the ship and the inside of the dock at the floor. The maximum beam was determined by allowing a 0.6 meter clearance on each side between the ship and each side of the dock entrance at the sill, unless the shipyard indicated more clearance is required.

There are several types of floating drydocks and graving docks, and under certain circumstances additional clearance would be necessary between the ship and the dock body. Permissible ship sizes requiring additional clearance may be determined by simple calculation from the above criteria.
MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)

EAST COAST

Shipbuilding Facilities (5)

- Baltimore Marine Industries, Inc. - Baltimore, MD
- Bath Iron Works Corporation - Bath, ME
- Electric Boat Corporation - Groton, CT
- Intermarine Savannah - Savannah, GA
- Newport News Shipbuilding - Newport News, VA

Repair Facilities (With Drydocking) (13)

- Atlantic Dry Dock Corporation - Jacksonville, FL
- Bath Iron Works Corporation, Portland Facility - Portland, ME
- Caddell Dry Dock & Repair Company, Inc. - Staten Island, NY
- Colonna's Shipyard, Inc. - Norfolk, VA
- Detyens Shipyard, Inc., Main Yard - Charleston, SC
- Detyens Shipyard, Inc., Wando Division, - Mt. Pleasant, SC
- Eastern Technical Enterprises, Inc. - Brooklyn, NY
- Economic Development & Industrial Corporation of Boston (EDIC) - Boston, MA
- GMD Shipyard Corporation - Brooklyn, NY
- Metro Machine Corporation - Norfolk, VA
- Metro Machine of Pennsylvania, Inc. - Chester, PA
- Norfolk Shipbuilding & Drydock Corporation, Berkeley, - Norfolk, VA
- North Florida Shipyard, Inc. - Jacksonville, FL

Topside Repair Facilities (10)

- American Shipyard Co., LLC - Newport, R
- Associated Naval Architects, Inc. - Portsmouth, VA
- General Ship Repair Corporation - Baltimore, MD
- Hood Enterprises, Inc. - Portsmouth, RI
- Marine Hydraulics International, Inc. - Norfolk, VA
MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

EAST COAST (Continued)

Topsides Repair Facilities (10) (Continued)

- Metal Trades, Inc. - Hollywood, SC
- Moon Engineering Co., Inc. - Portsmouth, VA
- Promet Marine Services Corporation - Providence, RI
- Reynolds Shipyard Corporation - Staten Island, NY
- Steel Style, Inc. - Newburgh, NY

East Coast Total = 28 Yards
MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

GULF COAST

Shipbuilding Facilities (5)

Alabama Shipyard, Inc. - Mobile, AL
AMFELS, Inc. - Brownsville, TX
Avondale Industries, Inc., Shipyards Division - Avondale, LA
Halter Moss Point - Moss Point, MS
Halter Pascagoula - Pascagoula, MS
Ingalls Shipbuilding, Inc. - Pascagoula, MS
Newpark Shipbuilding, Galveston, - Galveston, TX
Tampa Bay Shipbuilding & Repair Co. - Tampa, FL

Repair Facilities (With Drydocking) (9)

Atlantic Marine, Inc., Mobile - Mobile, AL
Bender Shipbuilding & Repair Co., Inc. - Mobile, AL
Bludworth Bond Shipyards - Houston, TX
Gulf Marine Repair Corp. - Tampa, FL
Halter Gulf Repair - New Orleans, LA
Halter Port Bienville - Lakeshore, MS
International Ship Repair & Marine Service, Inc. - Tampa, FL
TDI-Halter, Dock Yards - Port Arthur, TX
TDI-Halter, Orange - Orange, TX

Topside Repair Facilities (22)

Avondale Industries, Inc., Algiers Division - Avondale, LA
Bludworth Bond Shipyards, Texas City Yard - Houston, TX
Boland Marine & Manufacturing Co., Inc. - New Orleans, LA
Bollinger Algiers, LLC - New Orleans, LA
Bollinger Fourchon, LLC - Golden Meadow, LA
Gulf Coast Total = 39 Yards
WEST COAST

Shipbuilding Facilities (3)

Gunderson, Inc. - Portland, OR
National Steel & Shipbuilding Co. - San Diego, CA
Todd Pacific Shipyards Corp. - Seattle, WA

Repair Facilities (With Drydocking) (8)

Bellingham Bay Shipyard, LLC - Bellingham, WA
Cascade General, Inc. - Portland, OR
Dakota Creek Industries, Inc. - Anacortes, WA
Lake Union Drydock Co. - Seattle, WA
MAR COM, Inc. - Portland, OR
San Francisco Drydock, Inc. - San Francisco, CA
Southwest Marine, Inc., San Diego Division - San Diego, CA
Southwest Marine, Inc., San Pedro Division - Terminal Island, CA

Topside Repair Facilities (7)

Bay Ship & Yacht Co., Alameda - Alameda, CA
Bay Ship & Yacht Co., Richmond - Richmond, CA
Campbell Shipyard - San Diego, CA
Continental Maritime of San Diego, Inc. - San Diego, CA
Foss Shipyard - Seattle, WA
Pacific Fisherman, Inc. - Seattle, WA
San Pedro Boat Works - San Pedro, CA

West Coast Total = 18 Yards
MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

GREAT LAKES

Shipbuilding Facilities (4)

Bay Shipbuilding Co. - Sturgeon Bay, WI
Fraser Shipyards, Inc. - Superior, WI
Marinette Marine Corporation - Marinette, WI
Metro Machine of Pennsylvania, Industrial Products Division - Erie, PA

Repair Facilities (With Drydocking) (1)

Toledo Ship Repair Co., Toledo Shipyard - Toledo, OH

Topside Repair Facilities (2)

H. Hansen Industries - Toledo, OH
Nicholson Terminal & Dock Company - River Rouge, MI

Great Lakes Total = 7 Yards
MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

NON-CONUS

Shipbuilding Facilities (0)
None

Repair Facilities (With Drydocking) (2)
Alaska Ship & Drydock, Inc. - Ketchikan, AK
Marisco, Ltd. - Honolulu, HI

Topside Repair Facilities (1)
Honolulu Shipyards, Inc. - Honolulu, HI

Non-Conus Total = 3 Yards