

# FAQ'S

## HOS RIVERBEND



*Service with Energy®*

## RESUMÉ

### WHAT ARE SOME OF THE MAJOR PROJECTS/ FACILITIES THE HOS RIVERBEND HAS SUPPORTED?

<u>Facility/Project</u>	<u>Client</u>	<u>Location</u>	<u>POB</u>
1. MARS	Shell	U.S. GoM	194
2. Litoral	McDermott	Mexico	194
3. Gulfstar-1	Williams	U.S. GoM	170

### HOS RIVERBEND DELIVERY & HISTORY

The HOS Riverbend originally delivered from the shipyard in early 2014 as a U.S. Flagged, Jones Act compliant, DP-2 supply vessel.

In 2015, the vessel was selected by Shell to provide accommodation support for its MARS platform in the Gulf of Mexico. During this time, a motion compensated gangway and a helideck were added to the vessel, and berthing was expanded from 50 persons to 194 persons marking the second flotel vessel in the Hornbeck Offshore Accommodation Support Fleet.

Additional amenities were also added to the vessel for increased passenger comfort and productivity including, an office annex with workstations and conference room, an indoor smoking lounge, gym facility, locker rooms, mess, galley, laundry facilities and theater.

## REGULATORY INFO

### WHAT ARE THE HOS RIVERBEND'S REGULATORY NOTATIONS?

The HOS Riverbend is a DP-2, U.S. flagged, Jones Act compliant and Passenger Act compliant vessel.

Regulatory certifications include: Oceans-SOLAS, SIP, USCG Subchapter I, and USCG Subchapter L.

A complete list of regulatory notations can be found on the vessel's spec sheet. To download a copy of the spec sheet, visit the vessel's page in the Featured Fleet section of the Company's website at [hornbeckoffshore.com/fleet/featured](http://hornbeckoffshore.com/fleet/featured).

### WHAT IS THE SIGNIFICANCE OF USING A U.S. FLAGGED ACCOMMODATION VESSEL?

Unlike foreign-flagged vessels, the HOS Riverbend is legally allowed to transport cargo, materials and personnel between ports and other places in the United States, including offshore assets on the United States Outer Continental Shelf (OCS).

## HELO OPERATIONS

### WHAT IS THE SIZE AND RATING OF THE HOS RIVERBEND'S HELIDECK?

The HOS Riverbend's helideck has a diameter of 73 feet, or 22.5 meters, and is rated for Sikorsky S-92 helicopters (12 MT).

## FUEL STORAGE & CONSUMPTION

### WHAT IS THE FUEL STORAGE CAPACITY AND FUEL CONSUMPTION OF THE SHIP?

The HOS Riverbend has approximately 240,000 gallons (910 m<sup>3</sup>) of fuel storage capacity. The ship also has the ability to carry and offload fuel cargo.

The ship's approximate fuel consumption is:

Underway	4,500 gal (17 m <sup>3</sup> ) per day
DP [inside 500 m]	2,000 gal (7.5 m <sup>3</sup> ) per day
DP [outside 500 m]	1,500 gal (5.5m <sup>3</sup> ) per day

### WATER CONSUMPTION AND CAPACITY

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Accommodated passengers typically require 65 to 85 gallons of potable water per person, per day.

The ship has approximately 140,000 gallons of potable water storage capacity, and is capable of making up to 22,000 gallons of water per day.

## RE-PROVISIONING

### HOW OFTEN DOES THE SHIP NEED TO BE RE-PROVISIONED ONCE IT IS OFFSHORE?

Re-provisioning of the ship depends on the number of passengers on board. Typically, the ship is re-provisioned every two weeks primarily for perishable groceries.

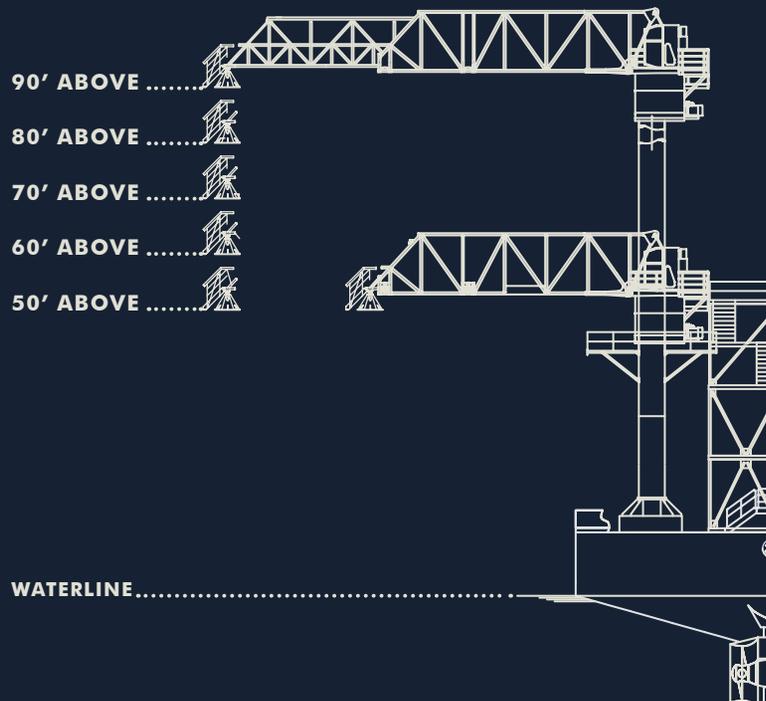
## GANGWAY / WALK-TO-WORK

### WHAT ARE THE PRIMARY BENEFITS OF A "WALK-TO-WORK" GANGWAY?

A motion compensated gangway can provide a safer and more efficient means of transferring personnel between an offshore facility and an accommodation vessel. This solution has been very effective during maintenance projects, as well as hookup and commission of floating production systems.

### GANGWAY LANDING HEIGHT

The gangway landing height can range from 50 to 90 feet above waterline (function of vessel draft). Gangway height is adjustable using mechanical spool pieces as outlined below:

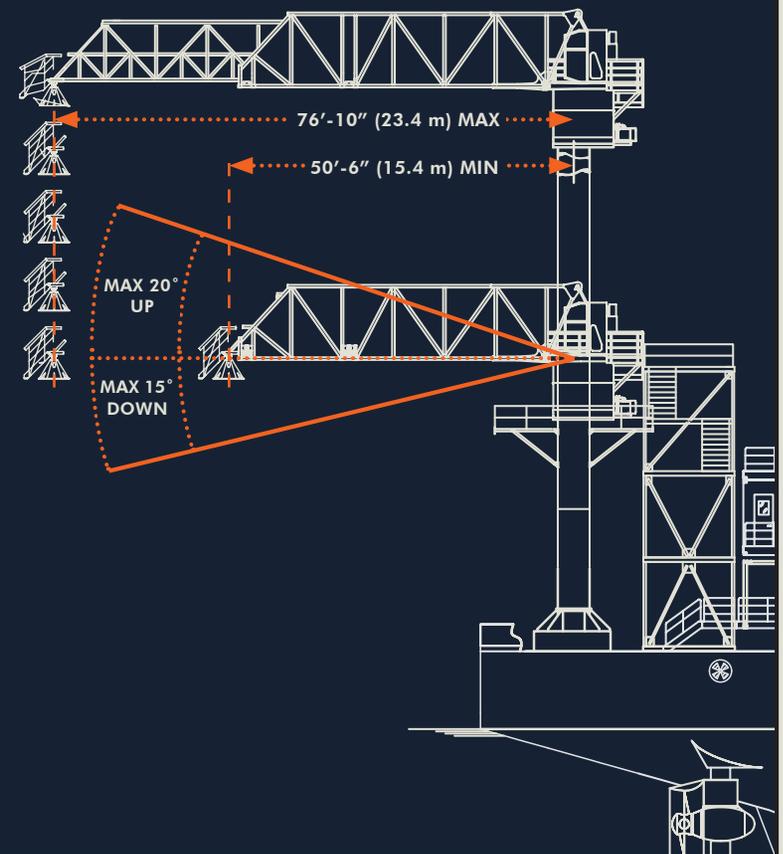


## GANGWAY / WALK-TO-WORK (CONT.)

### WHAT ARE THE OPERATING LENGTHS AND ANGLES OF THE GANGWAY?

The gangway has an operating length of approximately 19.4 meters (64 ft.) with a telescopic movement of +/- 4 meters and an operating angle of +20° to -15°. The maximum length of the gangway is 23.4 meters (77 ft.) and the minimum length is 15.4 meters (50.5 ft.).

### GANGWAY OPERATING ENVELOPE



## **GANGWAY / WALK-TO-WORK (CONT.)**

### **WHAT ARE THE MOTION COMPENSATION FEATURES OF THE GANGWAY?**

The HOS Riverbend's gangway has active and passive motion compensation features, and is integrated with the ship's DP system as a primary reference sensor.

When landing the gangway on the offshore structure, active motion compensation corrects the motions of the gangway to compensate for the HOS Riverbend's movement, keeping the end of the gangway stationary in space for landing. Once the gangway is landed, passive mode enables the gangway to follow all movements between the HOS Riverbend and the offshore facility.

### **THE GANGWAY'S 3 RANGES OF MOTION:**

- 1. Boom up & down**
- 2. Slew left & right**
- 3. Telescope in & out**

### **UNDER WHAT WEATHER CONDITIONS CAN GANGWAY TRANSFERS OCCUR?**

The gangway's operating envelope includes a sea state of 3 - 4; however, the primary limiting factor in gangway operations is vessel heave. A 2 meter significant heave is the likely condition where personnel transfers would be suspended.

### **IS THERE A FAST RESCUE CRAFT (FRC) ON STANDBY DURING GANGWAY TRANSFERS?**

Yes.

## **GANGWAY / WALK-TO-WORK (CONT.)**

### **DOES THE GANGWAY REMAIN LANDED ON THE FACILITY AT ALL TIMES?**

The gangway can remain landed on the facility for extended periods. While there is no specific system requirement to disengage the gangway from the facility during normal operating conditions, the vessel will typically move away from the facility following the completion of transfers, just like any other vessel that services an offshore asset. This mitigates unnecessary risk, such as unscheduled passenger movements between the assets, and it allows for drills and preventative maintenance to be performed away from the facility.

### **DOES THE GANGWAY REMAIN LANDED UNTIL ALL PASSENGERS ARE TRANSFERRED?**

Yes. Once the gangway is landed, it will remain in place until all personnel transfers are complete, in both directions. This continuous transfer method is efficient, and it is different than other solutions that may require small incremental transfers between the assets with multiple gangway landings during a single crew change.

### **WHAT ARE THE REQUIREMENTS FOR A GANGWAY LANDING AREA ON AN OFFSHORE FACILITY?**

The gangway needs a minimum clear landing area of 12 ft. x 12 ft. Its landing cone applies an approximate load of 2.6 tons, or 580 psf over the contact area, and is the preferred platform design criteria. Our in-house team of engineers can assist in assessing the suitability and locations of existing or preferred landing platforms.

## **BERTHING**

### **WHAT IS THE NUMBER OF BERTHS ON THE SHIP, AND HOW MANY ARE AVAILABLE FOR THE CLIENT?**

The HOS Riverbend has a total of 194 berths.

We typically offer 150 berths to our clients to ensure adequate berthing for the marine crew and support staff.

It is important to note that the number of berths available for client use is a function of the operating tempo and service levels required by the project. The ship's marine crew, crane and gangway operators, medical personnel, catering staff, security team and clerks must have allocated berthing. This allocation is consistent with a generally accepted ratio of 1 cook/steward for every 10 accommodated passengers. Alternate arrangements can be discussed interactively.

### **WHAT ARE THE TYPICAL ROOM ARRANGEMENTS FOR CLIENT BERTHING?**

The HOS Riverbend has 53 staterooms in various configurations as presented below. Each stateroom is outfitted with a private bath, including shower, and a computer/work desk equipped with Internet and power connections. Each bunk within a stateroom has its own private locker closet and storage.

<u># OF STATEROOMS</u>	<u>PASSENGERS PER ROOM</u>
2	1 person
6	2 persons
45	4 persons

## **CLIENT OFFICES**

### **HOW MANY CLIENT WORKSTATIONS ARE AVAILABLE ON THE SHIP?**

The ship has 24 workstations available for client use.

### **IS THERE A CONFERENCE ROOM AVAILABLE?**

Yes. The ship has a conference room available for client use with seating for 12 people.

### **DOES THE CONFERENCE ROOM HAVE TELEVISIONS OR OTHER MEANS OF PROJECTING PRESENTATIONS?**

Yes.

### **IS THE CONFERENCE ROOM OUTFITTED WITH SPEAKER PHONES FOR CONFERENCE CALLS?**

Yes.

### **CAN THE CONFERENCE ROOM MAKE USE OF VIDEO CONFERENCING?**

Yes.

## **INTERNET/TELEPHONE ACCESS**

### **IS INTERNET ACCESS AVAILABLE?**

Yes. Internet access is available throughout the ship in common areas and living quarters.

## INTERNET/TELEPHONE ACCESS (CONT.)

### HOW MUCH SATELLITE BANDWIDTH CAN BE OBTAINED ON THE HOS RIVERBEND?

The maximum bandwidth available to the ship is approximately 1 MB upload x 2 MB download. Bandwidth may be expanded beyond this with additional hardware.

### CAN CLIENTS ALLOCATE BANDWIDTH BETWEEN BUSINESS AND PERSONAL/CASUAL USE?

Yes. Bandwidth can be prioritized, segregated, and password protected for different uses.

### IS WIRELESS INTERNET AVAILABLE IN COMMON AREAS, CONFERENCE ROOMS AND LOUNGES?

Yes. Wireless Internet is available in all common areas.

### HOW MANY TELEPHONES CAN BE SETUP FOR USE BY CLIENT PERSONNEL?

The number of telephone lines is dependent on the bandwidth plan chosen by the client. We have provided over 20 direct dial telephones with local area codes for client use on prior projects.

### WHAT TYPE OF TELEPHONE ACCESS CAN BE PROVIDED AND HOW ARE COSTS CONTROLLED?

We can offer designated, separate phone lines where usage is captured and billed according to service rates. Additionally, restrictions can be put in place to limit access to international dialing.

## PASSENGER AMENITIES

### ARE THERE LOCKER ROOMS FOR WORKERS TRANSFERRING BETWEEN THE SHIP AND THE OFFSHORE FACILITY?

Yes. There is a men's and a women's locker room.

### IS THERE A FITNESS FACILITY AVAILABLE FOR PASSENGERS?

Yes. The ship has a gym facility featuring state-of-the-art weight lifting and cardio equipment, wireless Internet, and large, flat-screen televisions throughout.

### IS SATELLITE TELEVISION AVAILABLE?

Yes.

## PASSENGER LOUNGE AREAS

FOCSLE DECK:	Theater
01 DECK:	Gym Facility
02 DECK:	Indoor Smoking Lounge

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The smoking lounge has two video gaming stations outfitted with Xbox consoles and a wide selection of video games.



## SMOKING AREAS

### WHAT INDOOR AND OUTDOOR SMOKING AREAS ARE AVAILABLE ON THE SHIP?

There is an 830 Sq.ft. indoor Smoking Lounge, and a covered outdoor smoking area with tables and seating.

## CATERING

### HOW MANY SEATS ARE AVAILABLE DURING A SPECIFIC MEAL PERIOD?

The Main House Mess Hall has seating for 32 people.  
The Annex House Mess Hall has seating for 64 people.

### WE TYPICALLY PROVIDE 4 MEALS A DAY TO ACCOMMODATE DIFFERENT WORK SHIFTS.

- Breakfast
- Lunch
- Dinner
- Midnight Meal

### WHAT LEVEL OF STAFFING IS GENERALLY OFFERED TO SUPPORT CATERING AND HOTEL SERVICES?

We typically provide 1 catering staff member for every 10 accommodated passengers.

### CAN MEALS BE PACKAGED AND SENT TO THE OFFSHORE FACILITY?

Yes.

## HOUSEKEEPING

### HOW MANY LAUNDRY ROOMS ARE INSTALLED ON THE SHIP?

The HOS Riverbend has 2 laundry facilities onboard the ship with a total of 15 washer and dryer units.

### WHAT ARE THE TYPICAL LAUNDRY CYCLES?

Laundry services are provided by the catering staff. Towels are collected daily for washing. Laundry cycles for personnel clothing will depend on client requirements and the number of persons on board.

### HOW OFTEN ARE STATEROOM CABINS AND BATHROOMS CLEANED?

Typically once a week.

### HOW OFTEN ARE LINENS TYPICALLY CHANGED?

Typically once a week.

## SAFETY/SECURITY

### WHAT TYPE OF SECURITY TEAM IS ON THE SHIP?

During flotel operations, we typically have a 4 person security team on the ship to ensure there are 2 security officers on duty for each watch.

## SAFETY/SECURITY (CONT.)

### HOW MANY SECURITY CAMERAS ARE ON THE SHIP, AND WHAT LEVEL OF MONITORING OCCURS?

For the safety and security of all passengers on the HOS Riverbend, we have installed 65 security cameras throughout the vessel that record live feeds 24-hours a day. These cameras cover interior and exterior passageways, common areas, vessel entry points, critical machinery spaces, the bridge, and exterior views of the vessel to aid in maneuvering.

Video output is fed directly to monitors located on the vessel, and live feeds are monitored by the security team and the vessel crew.

### HOW ARE PASSENGERS ACCOUNTED FOR AS THEY MOVE BETWEEN THE VESSEL AND THE FACILITY?

The HOS Riverbend utilizes an A-Pass® electronic personnel tracking system designed to effectively and efficiently track passenger movement, as well as help facilitate emergency response procedures, through the use of portable, handheld card readers that track and record passenger movements instantaneously.

These portable card readers work with a Vessel Photo ID Card that is issued to passengers during the check-in process.

Real-time passenger location, security photo, and other pertinent information is stored in the system and is accessible at any time.

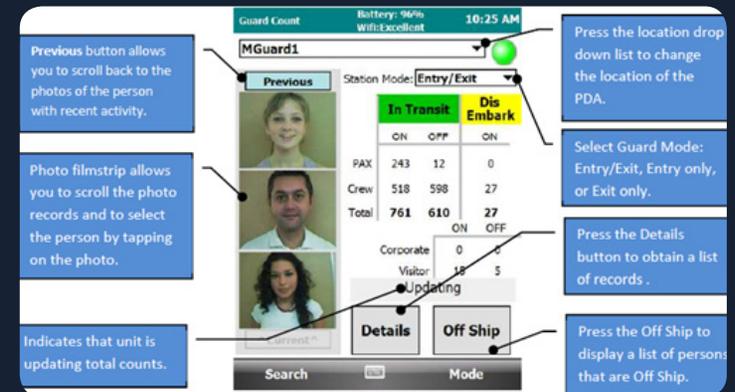
## SAFETY/SECURITY (CONT.)

The system is crucial for identifying people and knowing who is on or off ship as well as accounting for them during drills and life boat tendering.

### GANGWAY ACCESS CONTROL

With the HOS Riverbend's personnel tracking system, passenger embarking and debarking is fast, accurate and secure.

Portable, handheld card readers scan all of the passengers on and off the ship, as well as provide instant photo ID verification.



Guard Count: 10:25 AM  
Battery: 96%  
WinExceboat

Station Mode: Entry/Exit

	In Transit	Dis Embark	
	ON	OFF	ON
PAX	243	12	0
Crew	518	598	27
Total	761	610	27

Corporate: 0  
Visitor: 18  
Updating: 5

Details Off Ship

Search Mode

Previous button allows you to scroll back to the photos of the person with recent activity.

Photo filmstrip allows you to scroll the photo records and to select the person by tapping on the photo.

Indicates that unit is updating total counts.

Press the location drop down list to change the location of the PDA.

Select Guard Mode: Entry/Exit, Entry only, or Exit only.

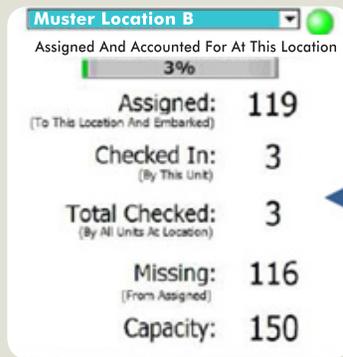
Press the Details button to obtain a list of records.

Press the Off Ship to display a list of persons that are Off Ship.

## SAFETY/SECURITY (CONT.)

### MUSTER STATION OPERATIONS

System will show how many people are assigned to a particular muster station and give a running total to show who has checked in and who has not.



### REAL-TIME INFORMATION

Ship Summary		ON	OFF	Total
Expected		N/A	0	0
Passenger	In Transit	0	0	0
	Disembarked	0	0	0
Crew	Disembarked	N/A	0	0
	In Transit	45	1	46
	Embarked	11	N/A	11
<b>In Transit Total</b>		<b>45</b>	<b>1</b>	<b>46</b>
Corporate		0	0	0
Visitor		0	1	1
Other		0	0	0
<b>Total</b>		<b>56</b>	<b>2</b>	<b>58</b>

Annotations: PAC On Ship, PAC On RIG, Crew Off Ship, Total On Ship, Total Off Ship, Total POB



