Recommended Practice and Inspection

OSHA Man Basket, OMB-1,2,4,F

BILLY PUGH COMPANY

INTEGRITY MANAGEMENT SYSTEM (IMS)

Printed documents are considered uncontrolled.
Controlled documents can be found on the Billy Pugh Co., Inc. website.

1.0 INTRODUCTION

1.1 Purpose

This recommended practice is intended to assist all employers in the development of safe work practices relative to the task of having personnel work at height within the confines of a Billy Pugh OSHA Man Basket (OMB). This recommended practice addresses most of the minimum regulatory and industry requirements for the use of this device. (see 2.3 Design Standards)

1.2 Scope

This recommended practice is intended for application by employers who have personnel work at height within the confines of a Billy Pugh OSHA Man Basket. This recommended practice should be applied as appropriate with due consideration made for any additional special hazards identified by the employer as a result of a thorough Job Safety Analysis (JSA) / Job Hazard Analysis (JHA).

1.3 Responsibilities

It is the responsibility of the employer to ensure this recommended practice is applied appropriately within their organization. Management of personnel working at height safety should be an integral component of the employers' existing Safety Management System (SMS). Each employer is encouraged to follow these recommendations and to proactively modify or supplement them with additional beneficial practices, equipment, or environmental conditions.

OMB-1

OMB-2

OMB-4

OMB-F

2.0 ACRONYMS, DEFINITIONS & REFERENCES

2.1 Acronyms

ABS	-	American Bureau of Shipping
ANSI	-	American National Standards Institute
ASME	-	American Society of Mechanical Engineers
BPC	-	Billy Pugh Company
DPI	-	Dye Penetrant Inspection
ITSDF	-	Industrial Truck Standards Development Foundation
JSA/JHA	-	Job Safety Analysis / Job Hazard Analysis
MPI	-	Magnetic Particle Inspection
NDT	-	Non-Destructive Testing
OHSA	-	Occupational Health & Safety Administration
OMB	-	OSHA Man Basket
PFD	-	Personal Floatation Device
PTW	-	Permit to Work
RP	-	Recommended Practice
SMS	-	Safety Management System
SOLAS	-	Safety of Life at Sea
WLL	-	Working Load Limit

2.2 Definitions

Qualified Person: A person designated by the employer who has the experience and formalized training to safely operate the crane, rigging and associated lifting devices assigned at the work location.

Qualified Inspector: A person designated by the employer who, by reason of appropriate experience and training, in addition to meeting the requirements of a qualified person, has attended formal training in inspection, maintenance and troubleshooting of cranes, rigging and lifting devices.

Rigging: Load lines, master links, safety slings and hardware that attach the OMB Device to the crane hook or block device.

2.3 Design Standards

The OSHA Man Baskets have been designed, manufactured, inspected, and tested in accordance with:

- ASME B30.23-2022 Personnel Lifting Systems
- EN14502-1:2010 Cranes – Equipment for Lifting Persons, Part 1: Suspended Baskets
- OSHA Regulation 29 CFR 1926.1431 Hoisting Personnel

2.4 References

- ANSI/ITSDF B 56.1-2020 Safety Standard for Low Lift and High Lift Trucks
- ANSI/ITSDF B 56.6-2016 Safety Standard for Rough Terrain Forklifts
- American Petroleum Institute (API) – "API RP-2D Recommended Practice for Operation & Maintenance of Offshore Cranes"
- Charles A. Roberts, 'OSHA's New Rules for Crane Suspended Personnel Platforms', SMC Concrete Construction, Publication #C890560, 1989
- EN14502-1:2010 Cranes – Equipment for Lifting Persons, Part 1: Suspended Baskets
- International Marine Contractors Association (IMCA) – "Task Risk Assessment Study 8/2000"
- OSHA Regulation 29 CFR 1926.502 (m) Fall Protection Systems Criteria and Practices
- OSHA Regulation 29 CFR 1926.550 (g) Cranes and Derricks
- OSHA Regulation 29 CFR 1926.602 Material Handling Equipment
- National Research Council, Assembly of Engineering Marine Board – "Committee on Assessment of Safety of OCS Activities"
- Kennedy Wire Rope & Sling Company – "Procedures for Inspection & Maintenance of Wire Rope Slings and Rigging"
- OMB-2 General Arrangement Drawing No. 23-005-SD-70-001
- OMB-4 General Arrangement Drawing No. 23-005-SD-70-004

3.0 BACKGROUND, PRODUCT HIGHLIGHTS & DESIGN FEATURES

3.1 Background

At Billy Pugh Company we like to say that our Research and Development Department is the oilfield workforce itself. Our business model is to regularly engage with our customers to learn what safety features they want to see inherent in the design of our products. The OSHA Man Baskets (OMB) are an excellent case study in product development through close collaboration with the end user.

BPC's OSHA Man Baskets (OMB's) are designed with your personnel's safety and job satisfaction in mind. Whether you are having to work in the air by crane or forklift our baskets will keep you safe. Our baskets are built to stringent domestic and international standards (see2.3 Design Standards and 2.4 References) with heavy duty steel and the exceptional quality you've come to expect when you purchase equipment from the Billy Pugh Company.

3.2 Product Highlights

Every OMB (OSHA Man Basket) includes:

- ✓ Working Load Limit (WLL) of 1,100 lbs.
- ✓ Overhead dropped objects protection
- ✓ Room for personnel and tools/parts
- ✓ Anchor points designed and tested for fall protection systems
- ✓ Safety guard rail safe hand placement
- ✓ Inward opening access gate with locking latch
- ✓ Diamond tread plate floor

Available separately for OMB-1, 2 & 4 models:

- ✓ Snag resistant tag line (please see BPC's Product Catalog for available RPDL-1 lengths)

Semi-Rigid Tag Line w/ 4ft Push-Pull Rigid Section

3.3 ABS Certification

3.3.1 ABS Type Approved Manufacturer

In terms of man baskets, we do charge an additional fee for ABS certificates to offset our costs associated with this service. ABS is not required in all parts of the world for man baskets so we only charge those companies that choose this option. Note: ABS Type Approval is only available in the OMB-2 and OMB-4 Models

3.3.2 ABS Type Approval Program

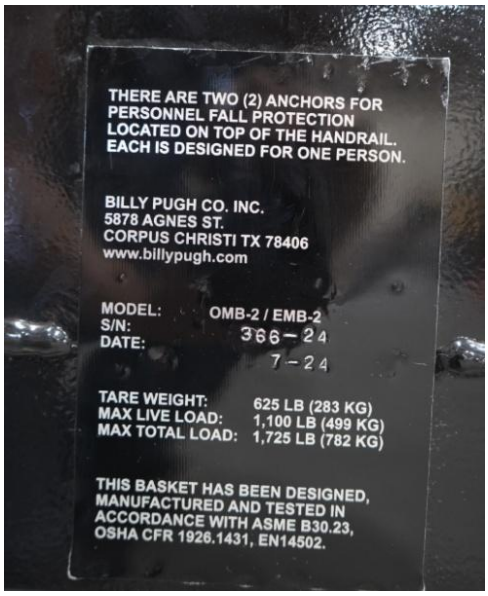
In the Type Approval Program, ABS certifies that enrolled manufacturers are capable of consistently producing a product in compliance with product specifications. Each product is tested to verify that it will perform reliably in the marine and offshore environment.

The ABS Type Approval process provides design verification and manufacturing assessment that confirms products meet applicable quality industry standards and class requirements.

To find out about the ABS Type Approval process visit www.eagle.org.

3.3.3 How Can I Tell if My Billy Pugh Personnel Transfer Device is ABS Type Approved?

Not all Billy Pugh Co. OSHA Man Baskets (OMB) come with ABS Type Approval Certificates. The design itself is ABS Type Approved under our Product Quality Assessment Program. The OMB series does not have a serial number that designates type approval. The last 2 numbers of the serial number are the year of manufacture. All OMB's are marked with the ABS Badging and includes a special ABS certificate as well as a BPC Label Plate (see below).



Billy Pugh Company Label Plate

3.3.4 Product Registration

Every OSHA Man Basket (OMB) should be registered on our Product Registration Website. This allows the user to record and track the In-Service Date of the device and access electronic copies of current certificates. Please refer to Appendix 6.4 to access a procedure to help guide the Product Registration Process.

4.0 RECOMMENDED PRACTICES / INSPECTIONS

4.1 Safe Recommendations for the OSHA Man Basket (OMB)

When an OMB is utilized to hoist personnel, it is recommended that the operation be performed under strict controls. At minimum, it is recommended that a Permit to Work (PTW) be issued as well as a Job Safety Analysis (JSA) or Job Hazard Analysis (JHA) be performed prior to the task taking place.

It is recommended that communication be established prior to, and maintained throughout, the hoisting of personnel. This communication whether radio or hand signals should be between the operator and the banksman/signalman.

It is recommended that all equipment involved in hoisting personnel must have current certification and be visually inspected for condition prior to each use.

4.1.1 Prior to a Personnel Transfer:

A Qualified Inspector should perform a Pre-Use Inspection as explained in section 4.2.2. The Inspector should look for signs of:

- Abrasion
- Cuts
- Cracks
- Corrosion

When damage affecting the structural integrity of the OMB is discovered, the device should be immediately taken out of service.

4.1.2 Recommended Practices:

The following minimum lifting practices are recommended for all crane assisted OSHA Man Baskets:

a) Ensure your company's Permit to Work (PTW) is issued, a Job Safety Analysis (JSA) / Job Hazard Analysis (JHA) has taken place prior to any personnel being hoisted.
b) Ensure a pre-use inspection is conducted prior to hoisting any personnel in an OMB.
c) Cranes or winches assigned to personnel lifting duties should be suitable for this purpose.
d) Ensure personnel operating a crane or hoisting device competent to perform this task.
e) Ensure the area below where the OMB is deployed is cleared of all personnel and obstructions.
f) Ensure all tools are secured during the lift and tethered while performing the job.
g) Ensure clear instructions are be given to all persons involved before any attempt is made to lift personnel inside an OMB.
h) If the operators or spotters view is obstructed, the basket should not be moved until alternative communication or signal devices are established.
i) When working over water, ensure either a Work Vest, Personal Floatation Device (PFD), Solas LSA approved lifejacket or survival suit is worn by personnel riding in OMB in addition to ensuring a lifebuoy and heaving line are immediately available.
j) It is recommended to use a snag resistant tag line for positioning the OMB during landing.
k) Upon completion of the job, the rider(s) and basket should be gently lowered to the disembarkation point. The rider(s) should have their knees bent just prior to landing to absorb any residual landing shock.
l) The operator may refuse to lift any person who does not comply with their instructions.

4.1.3 Load Restrictions *:

Loads must not exceed the maximum load designation marked on the man basket, and lines supporting the basket must be capable of supporting at least ten times the intended load. Tools and materials are to be secured and spread evenly over the basket's floor to prevent tipping. Only personnel trained in the task to be performed should be permitted in the man basket when it is hoisted.

4.1.4 Rigging *:

Bridles, links and shackles are parts of the rigging system that attaches the man basket to the crane or hoist and provide safety measures to prevent the man basket from falling or tipping. The man basket's load should be evenly positioned among bridle legs to avoid placing excessive strain on one leg. The rigging system supporting the man basket must be used only for that purpose, and all hooks and attachment mechanisms must be capable of closing and locking to avoid the possibility that a hook may open while the man basket is suspended with personnel inside.

4.1.5 Individual Safety:

Personnel should keep all body parts inside the man basket while it is being hoisted, positioned or lowered and should ensure the basket is secured before leaving it. Personnel should wear a personal fall arrest system and hard hats should be worn at all times to protect against falling objects.

4.1.6 Forklifts:

The OMB-F's chain should be attached securely to the forklift back rest when the basket is in use.

* **Note:** This does not pertain to the OMB-F

4.2 Inspections

4.2.1 Inspection Frequency

The end-user is recommended to adopt procedures that meet or exceed these recommendations.

	Frequency			
Type of Inspection	**Before Each Use**	**6 Months**	**12 Months**	**48 Months**
Pre-Use Inspection	x			
Detailed Sling Visual by 3rd Party		x		
Annual Detailed Inspection			x	
Load Test and NDT				x

***__Remember__: When inspecting any safety equipment, always err on the side of caution. The cost of a new OSHA Man Basket (or any safety equipment) is very small compared to the potential consequences of putting an unsafe or damaged device into service.

4.2.2 Pre-Use Inspection

All Pre-Use Inspections of the OSHA Man Baskets should be performed by a Qualified Person and should always incorporate an Operator's pre-use inspection. Disassembly is not required unless the visual inspection identifies a potential issue.

Line instructions for the OMB Pre-Use Inspection Form (see Appendix 6.1)

1. Label Plate – Confirm that the BPC Label Plate is attached and legible.
2. Wire Rope Sling or OMB-F Chain – Inspect for kinked wire or deformed components.
3. Shackles – Confirm that the nuts and cotter pins are in place on all lifting shackles as well as those used for personnel and tag line anchorages.
4. Expanded Metal – Check the upper and lower expanded metal for deformation or breaks. There should be welds on at least every third mesh.
5. Steel Frame – Check the entire frame for bends, damage, corrosion or any deformity that would affect the strength or performance of the OMB.
6. Access Gate – Confirm that the access gate swings freely and latch mechanism fully engages. Grease as required to ensure free movement. Confirm that the hardware (nuts and bolts) securing th access gate to the frame are intact. Push against a closed and latched access gate to ensure it will not accidentally open.
7. Safety Guard Rail – Check all sections to ensure they are secure and without deformation.
8. Anchorages – Check the personnel anchorages for deformation or cracks.

If any load bearing area of the OMB is worn or defective in any way, take the device out of service immediately.

4.2.3 Detailed Sling Visual by 3rd Party

To inspect the sling set, remove it from the basket and follow procedures according to accepted industry practice for sling inspection. This would include the hardware such as the master links, master link assemblies, and shackles. Look for excessive wear, damage or corrosion. Replace the sling and/or hardware if any of these conditions are present.

4.2.4 Annual Detailed Inspection

All Annual Detailed Inspections of the OSHA Man Baskets should be performed by a Qualified Person and should always incorporate an Operator's pre-use inspection. Disassembly is not required unless the visual inspection identifies a potential issue.

In general. Review the overall appearance of the OMB and the amount of usage that the device has had over its service life. If the OMB does not look as though it should go back into service for general worn appearance, remove it from service.

The OMB should be inspected in its entirety to identify any presence of deformation, cracks or corrosion. In particular, the following welds should be examined after thoroughly cleaning the painted surface. Any sign of cracked paint at a weld seam should be investigated further with the removal of the paint.

Line instructions for the OMB Annual Detailed Inspection Form (see Appendix 6.2)

1. General Damage – Check for any damage or defect on all parts of the device. Review the overall appearance of the OMB and the amount of usage that the device has had over its service life.
2. Welds – Inspect the welds on the following:
   - 2.1. Lifting Pad Eyes (not applicable to the OMB-F)
   - 2.2. Upper Gussets
   - 2.3. Lower Gussets
   - 2.4. Safety Guard Rail
   - 2.5. Personnel Anchorages
   - 2.6. Tag Line Anchorage
   - 2.7. Access Gate Hinges
   - 2.8. Lower Framing

4.2.4 Load Test and NDT

The basket should be load tested with 125% of the working load limit (e.g. 1,375 lbs for a WLL of 1,100lb) using the normal operating slings. The welds securing the lifting lugs to the frame should be inspected visually and also with magnetic particle (MPI) or die penetration (DPI).

5.0 REVISIONS

Rev.	Date	Nature of Revision
0	24-MAR-2025	Updated format Issued

6.0 APPENDICES

6.1 Pre-Use Inspection Form

OMB Pre-Use Inspection

Serial No.:	
Date:	
Inspected By:	
Signature:	

Item No.	Description	Pass	Fail
1.	Label Plate		
2.	Wire Rope Sling or OMB-F Chain		
3.	Shackles		
4.	Expanded Metal		
5.	Steel Frame		
6.	Access Gate		
7.	Safety Guard Rail		
8.	Anchorages		

Notes:

6.2 6 Month Inspection Form

OMB Annual Detailed Inspection

Serial No.:	
Date:	
Inspected By:	
Signature:	

Item No.	Description	Pass	Fail
1.	General Damage		
2.	Welds:		
2.1	Lifting Pad Eyes (where applicable)		
2.2	Upper Gussets		
2.3	Lower Gussets		
2.4	Safety Guard Rail		
2.5	Personnel Anchorage		
2.6	Tag Line Anchorage		
2.7	Access Gate Hinges		
2.7	Lower Framing		

Notes:

6.3 Specifications

6.3.1 Dimensions

Model	Imperial Units			Metric Units		
	Base Width	Total Length	Height of Device	Base Width	Total Length	Height of Device
OMB-1	36 in.	36 in.	90 in.	92 cm	92 cm	229 cm
OMB-2	48 in.	48 in.	91 in.	122 cm	122 cm	231 cm
OMB-4	48 in.	80 in.	91 in.	122 cm	203 cm	231 cm
OMB-F	48 in.	48 in.	67 in.	122 cm	122 cm	244 cm

6.3.2 Capacity

Model	Passenger Capacity	Imperial Units	Metric Units
OMB-1	1	300 lbs.	136 kg
OMB-2	2	1100 lbs.	499 kg
OMB-4	4	1100 lbs.	499 kg
OMB-F	2	600 lbs.	272 kg

ABS TYPE APPROVED PRODUCT

Note: Type Approval is only available on the OMB-2 and OMB-4 Models

6.4 Product Registration Process

Every OSHA Man Basket (OMB) should be registered on our Product Registration Website. This allows the user to record and track the In-Service Date of the device and access electronic copies of current certificates. Please follow the below process to ensure your device is properly registered.

6.4.1 Access the Billy Pugh Company Product Registration Page

There are two ways to access the Product Registration page:

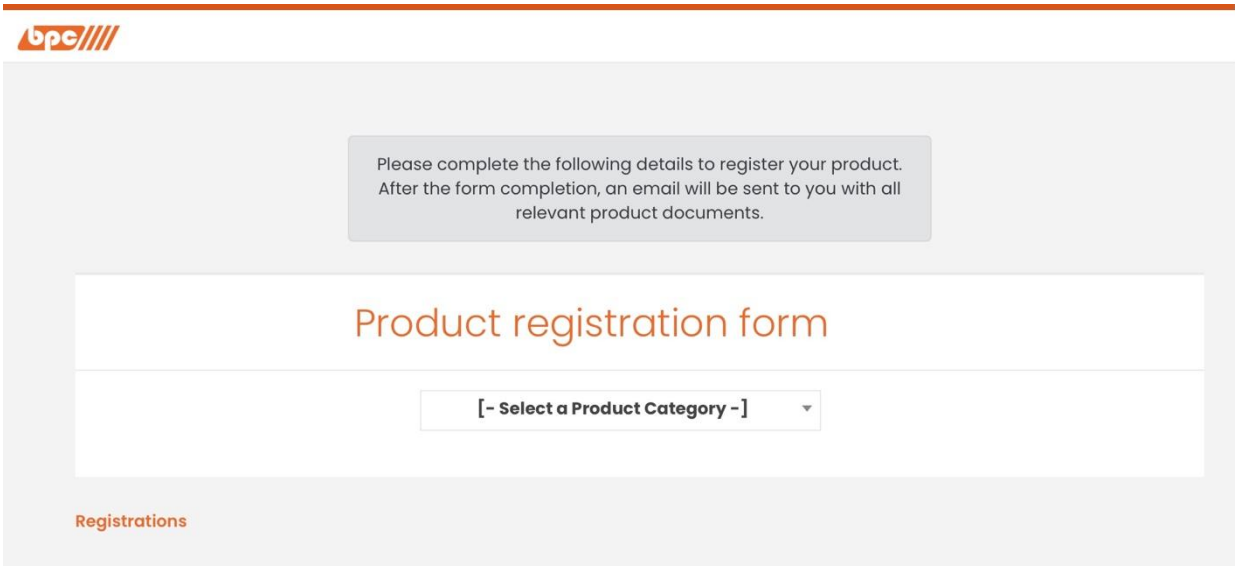
1. Enter or click on the web link below to access the Product Registration page.

https://bpc.myfleet360.net/registrations

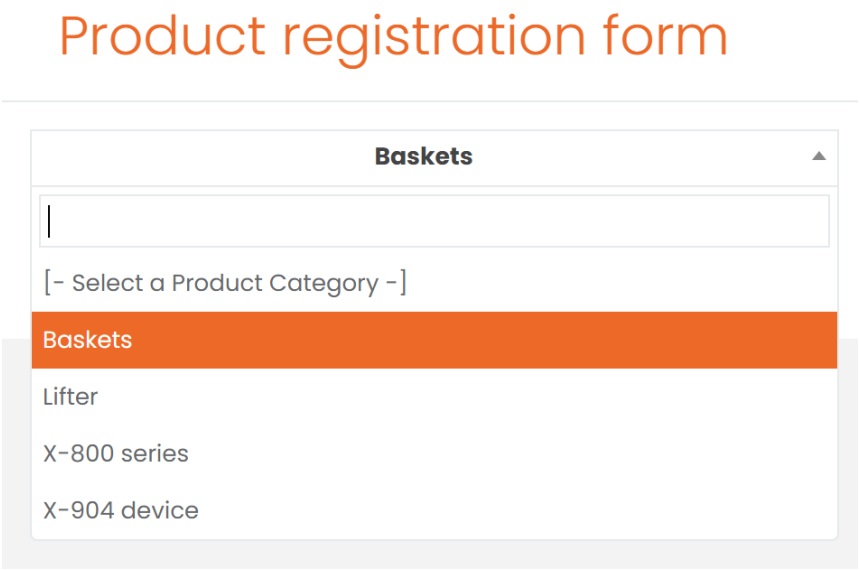
OR

2. Click or scan the QR code below.

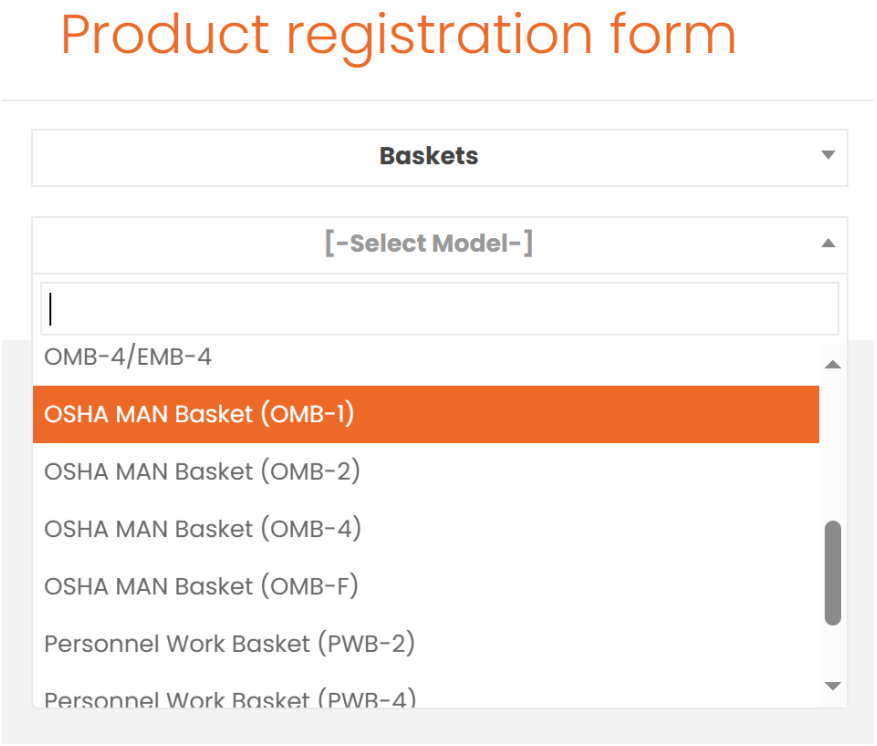
6.4.2 Select a Product Category



6.4.3 Select a Device from the Menu



6.4.4 Select a Model from the Menu



6.4.5 Complete the Form

Fill in all fields, indicate whether you want to become a member, verify that you are not a robot then click on the Register button and you will have successfully have completed the registration process.