

# NAVAL ARCHITECTURE

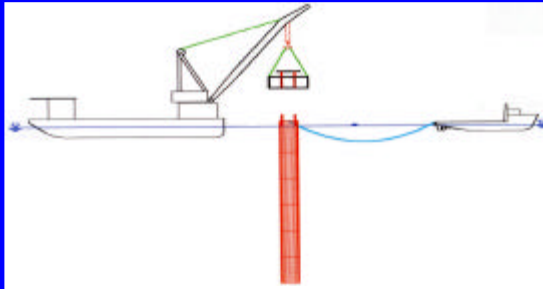
- ❖ Motions Analysis
- ❖ Stability Analysis
- ❖ Inclining Experiments
- ❖ Model Testing
- ❖ Installation Studies
- ❖ Marine Operations Manual

## MARINE

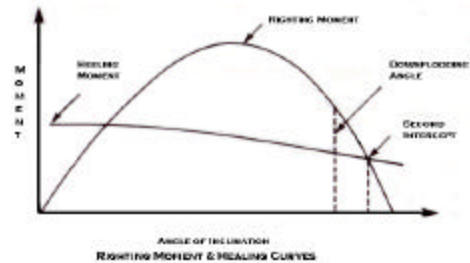
- ❖ Marine and Support System Design
- ❖ Firefighting System Design
- ❖ Piping System Flow Analysis
- ❖ Piping and Component Specifications
- ❖ Component Selection
- ❖ Procurement Assistance
- ❖ Construction Specifications
- ❖ Field Support

## REGULATORY

- ❖ Detail Design Assistance
- ❖ Training
- ❖ Project Audits
- ❖ Submittal Coordination



Crane Barge Installation



Righting Moment & Heeling Curves

### PART IV BLS DECK, HULL AND GRAVITY BASE PIPING SPECIFICATION

#### IV-1 SCOPE

This specification defines minimum requirements for the materials and procedures to be used for designing, fabricating, inspecting, testing, and installing piping systems on or for the BLS-Driller marine systems. This specification is to apply to all marine utility and drilling system piping systems including yard erected piping, fabrication of pipe spools, interconnecting piping between skids and piping erected offshore.

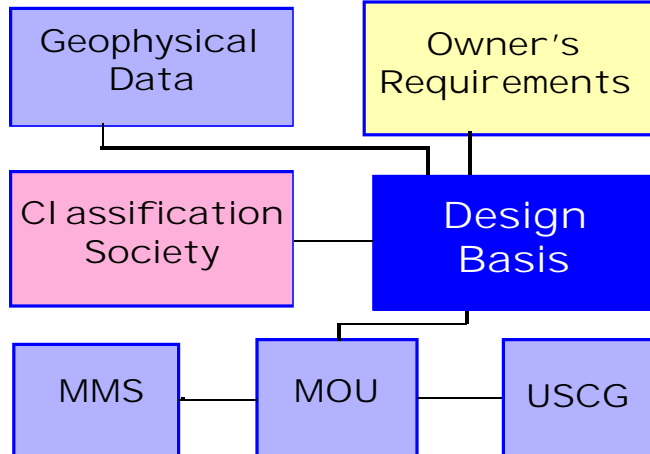
#### IV-2 CODES, STANDARDS, AND SPECIFICATIONS

Materials, design, fabrication, installation, inspection, and testing of piping shall be in accordance with the latest edition of applicable codes, standards, and specifications listed below, which shall be considered a part of this specification:

- ANSI B2.1 - Pipe Threads
- ANSI B16.5 - Steel Pipe Flanges, Flanged Valves and Fittings
- ANSI B16.9 - Factory Made Wrought Steel Butt-welded Fittings
- ANSI B16.11 - Forged Steel Flanges, Socket-Welded and Threaded
- ANSI B16.20 - Ring Joint Gaskets and Grooves for Steel Pipe Flanges
- ANSI B16.21 - Non-metallic Flat Gaskets for Pipe Flanges
- ANSI B16.28 - Wrought Steel Butt-welding Short Radius Elbows and Returns
- API RP 14C - Recommended Practice for Analysis, Design, Installation and Testing of Borehole Drilling Piping Systems

### Construction Specifications

Offshore Production Platform Piping Systems



Regulatory Interface



Piping analysis