

Para. 10.4.1.1	Written Procedures for Complex Lifts	None
----------------	--------------------------------------	------

### Written Procedures for Complex Lifts

---

**Question:** Clarify the requirement for written procedures for complex lifts as noted in NAVFAC P-307, paragraph 10.4.1.1. What should be addressed in a written complex lift procedure?

**Answer:** The procedures required vary with the actual complexity of the lift. Complex lifts as defined by NAVFAC P-307, paragraph 10.4.1, are lifts that involve a moderate to high level of risk. Each activity should develop a complex lift procedures checklist. From the list, choose the items that are applicable to the lift and develop the lift procedure as necessary.

#### SAMPLE COMPLEX LIFT PROCEDURE CHECKLIST

Written procedures for performing complex lifts may address the following information and parameters:

- The weight of the object to be lifted.
- Special precautions for unusual shapes.
- The capacity of the crane and the hook(s) to be used. If a variable capacity crane is utilized, confirm capacity at the boom radius to be used.
- For lifts requiring two or more cranes, determine the maximum capacity for each crane and percentage of weight each crane will lift. Address coordination of lifts and communication.
- List of the rigging equipment to be used.
- The need for a portable load indicating device.
- The need for a sketch or drawing showing rigging gear configuration, capacities, and orientation with regard to the object to be lifted.
- Crane team personnel required and their responsibilities.
- Special prerequisites and precautions prior to and during the lift (e.g., half-full tanks, residual water in bilges or structure, pressure equalization prior to taking a strain, submerged objects, weather condition limitations).
- The type of communication to be employed.
- Stop points (e.g., in the event of lifting submerged material to inspect exposed rigging gear or integral attachments, allow drainage).

- The maximum allowable load, as shown on a load indicator, prior to stopping for further technical resolution (e.g., contacting the cognizant technical code or original equipment manufacturer (OEM)).
- The lift/crane path (to calculate counter weight and travel clearance).
- Technical manuals excerpts or other OEM materials pertinent to object being lifted, (e.g., HAZMAT instructions, shipboard or facility plant equipment manuals, radiological manuals).
- A remarks or notes block for special situations where instructions can be added to the complex lift procedure.