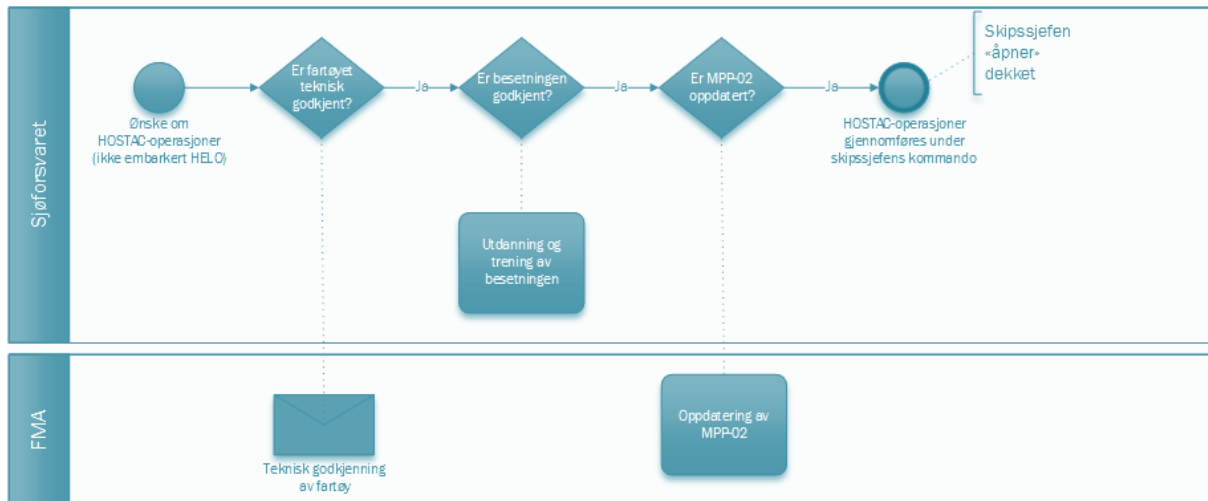
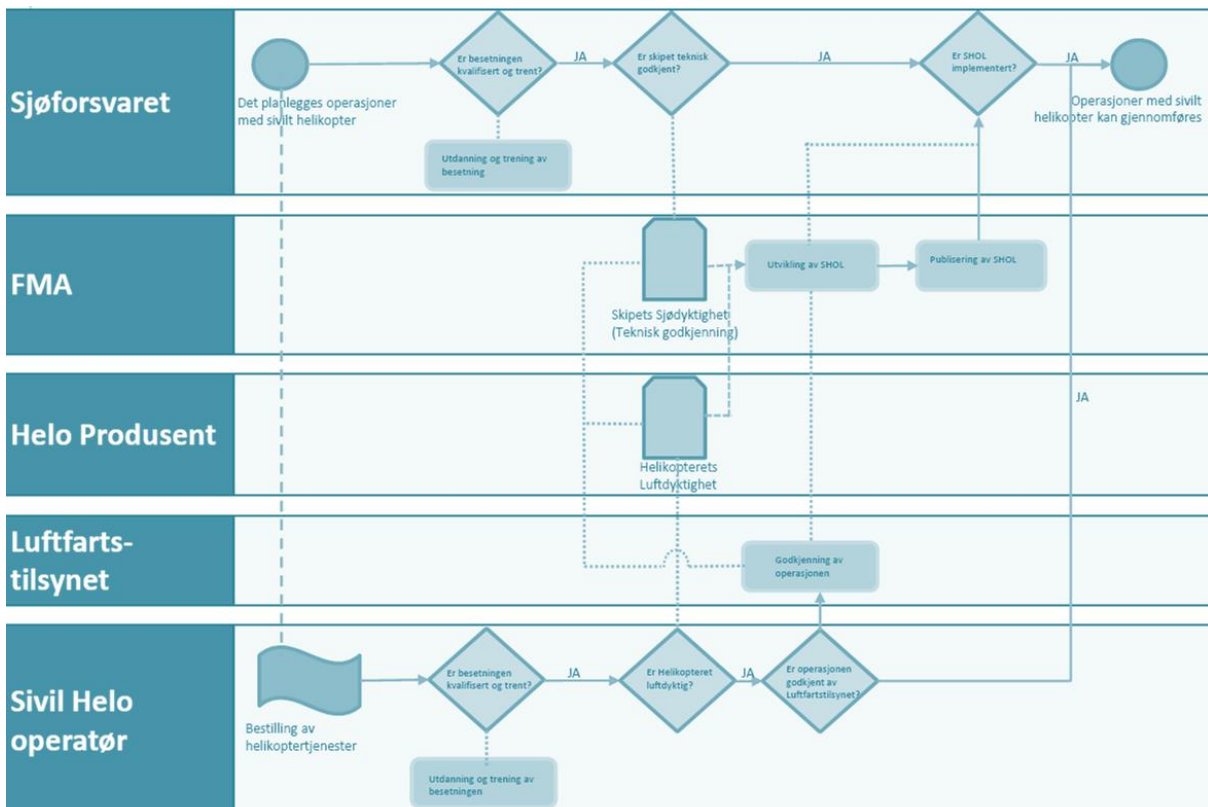


# APPENDIX 7, HELICOPTER SHIP INTEGRATION AND SHIP HELICOPTER OPERATING LIMITS

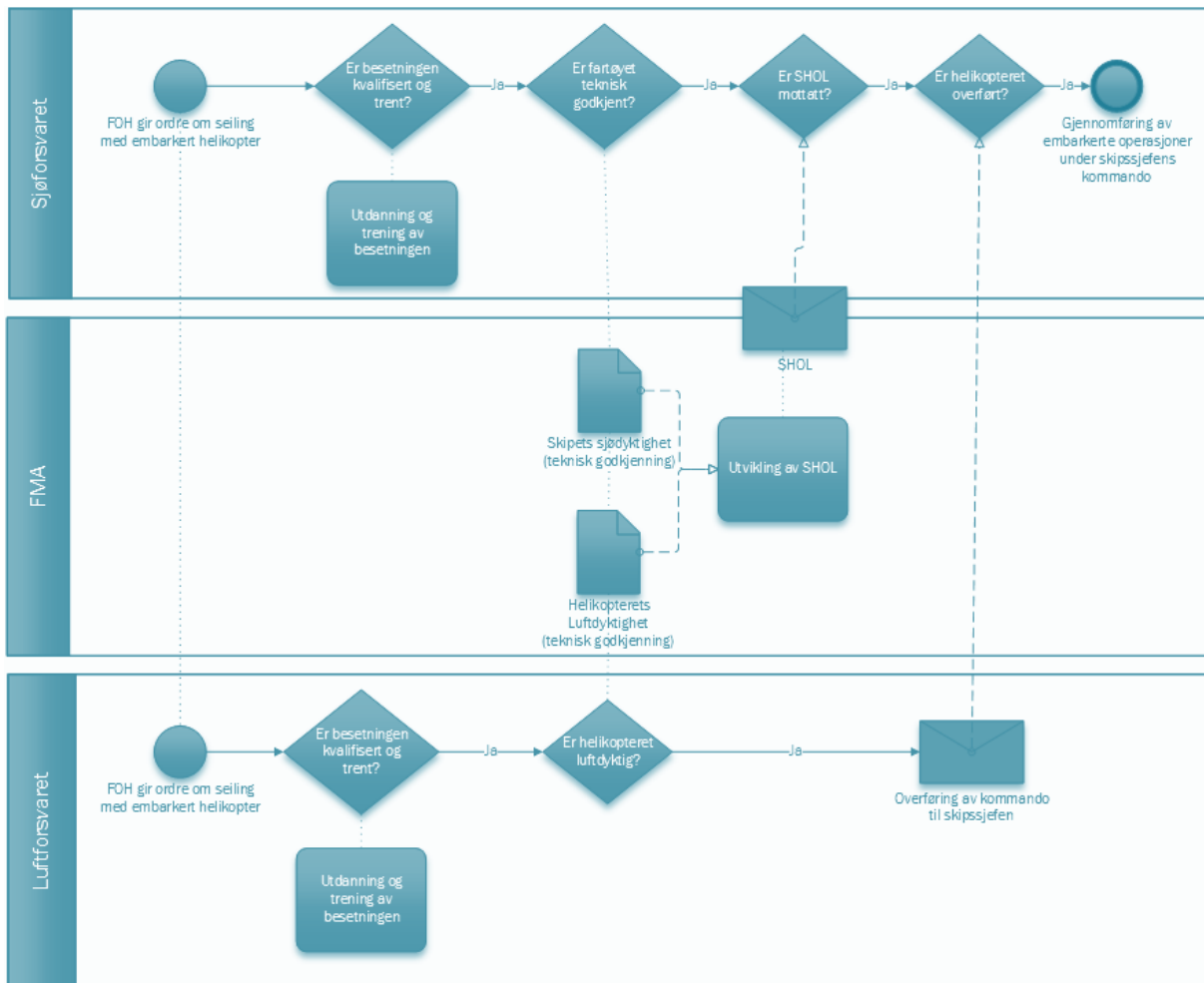
## A.7.1 Opening the deck



## A.7.2 Embarked civilian registered helicopter (for information purposes only)



## A.7.3 Embarked Military Helicopter



### A.7.3.1 SHOL data requirements

The following parameters must be included in the test report or equivalent document package:

1. Ship Motion Data (Frequency Domain data and Time History data). Data is to include the following for upper Sea States 2, 3, 4, ..., up to the Sea State whose motion is bounded by Heavy Weather conditions per MIL T 81259B, or alternatively, data per unit wave height in lieu of Sea State data.
  - a. Parameters:
    - i. Ship pitch, roll, and yaw (deg);
    - ii. Ship pitch, roll yaw and accelerations (deg/sec<sup>2</sup>);
    - iii. Ship center of gravity X, Y, and Z displacements (ft, meters);
    - iv. Ship N<sub>x</sub>, N<sub>y</sub>, and N<sub>z</sub> accelerations at center of Deck Lock grid (g's);
    - v. Ship N<sub>x</sub>, N<sub>y</sub>, and N<sub>z</sub> accelerations at center of hangar (g's);
    - vi. Definition of coordinate system;
    - vii. Location of ship's center of gravity (ft, meters);
    - viii. Location of center of securing mechanism/Deck Lock grid (if installed) (ft, meters); and
    - ix. Location of center of hangar (ft, meters);
  - b. Wave heading angles from 0 to 360 deg in 15 deg increments, or from 0 to 180 deg in 15 deg increments if symmetry is applicable;

- c. Ship velocities from 5 knots to maximum velocity in 5 knot increments;
- d. Additional recommended data:
  - i. Shortcrested wave data or definition of wave data; and
  - ii. Roll stabilization: Data with stabilization on and off, if applicable;
- 2. Defined aircraft mission configurations (weight, CG, etc.);
- 3. Tie-down fitting pad-eye location patterns on the flight deck and in the hangar; and
- 4. Information on the tie-down chain/strap that will be used for securing the aircraft to the ship's deck.