

Acquiring subs of type (i) at homeport (j)  $\xrightarrow{+}$  Fleet size of type (i) at homeport (j)

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Start

Read input user data  
(number of subs to retire, exit of service date, fleet type, exit of service location)

Is the simulation time = exit of service date

Yes

Select the Sub to retire (due to FCD? AND Not in Ops?)  
If the Sub is in Ops, wait till it finishes, and then retire.

Subtract number of Subs to retire from the Fleet size at the home port

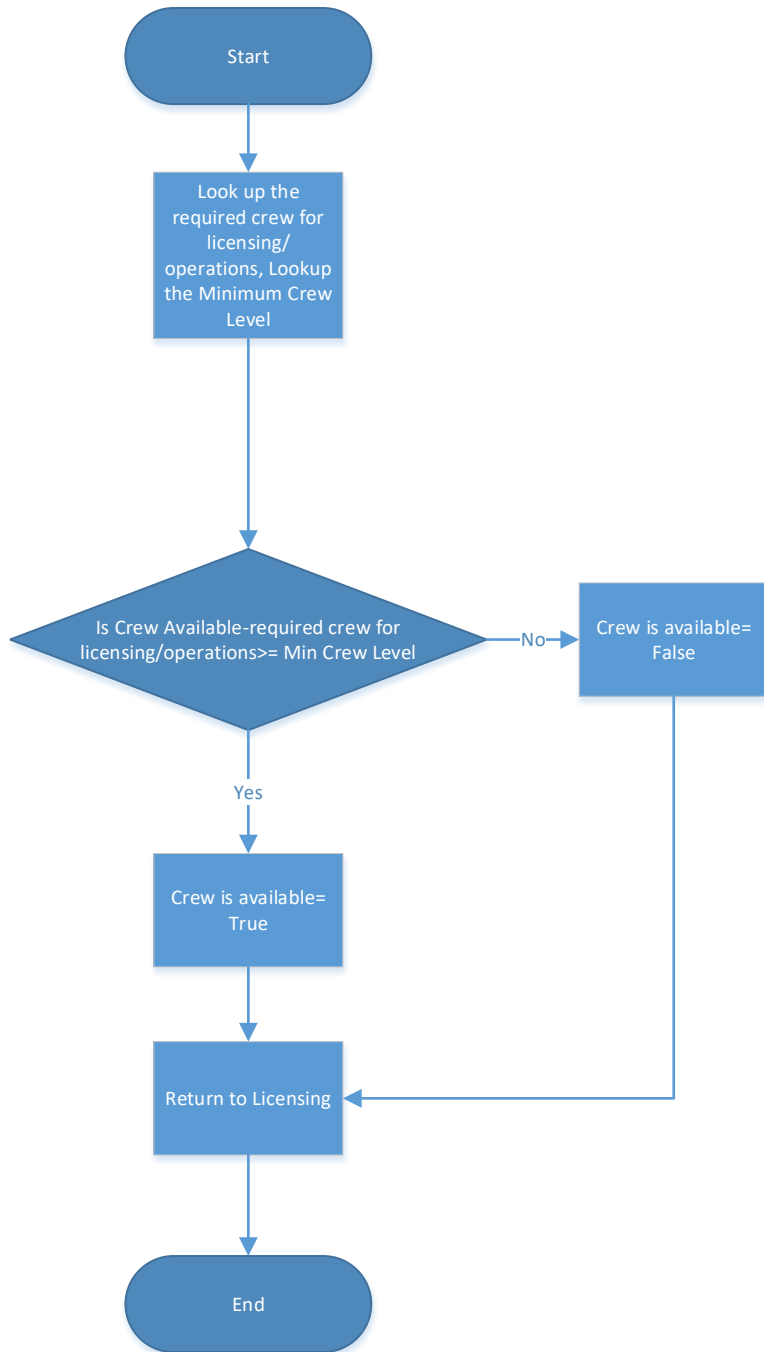
End

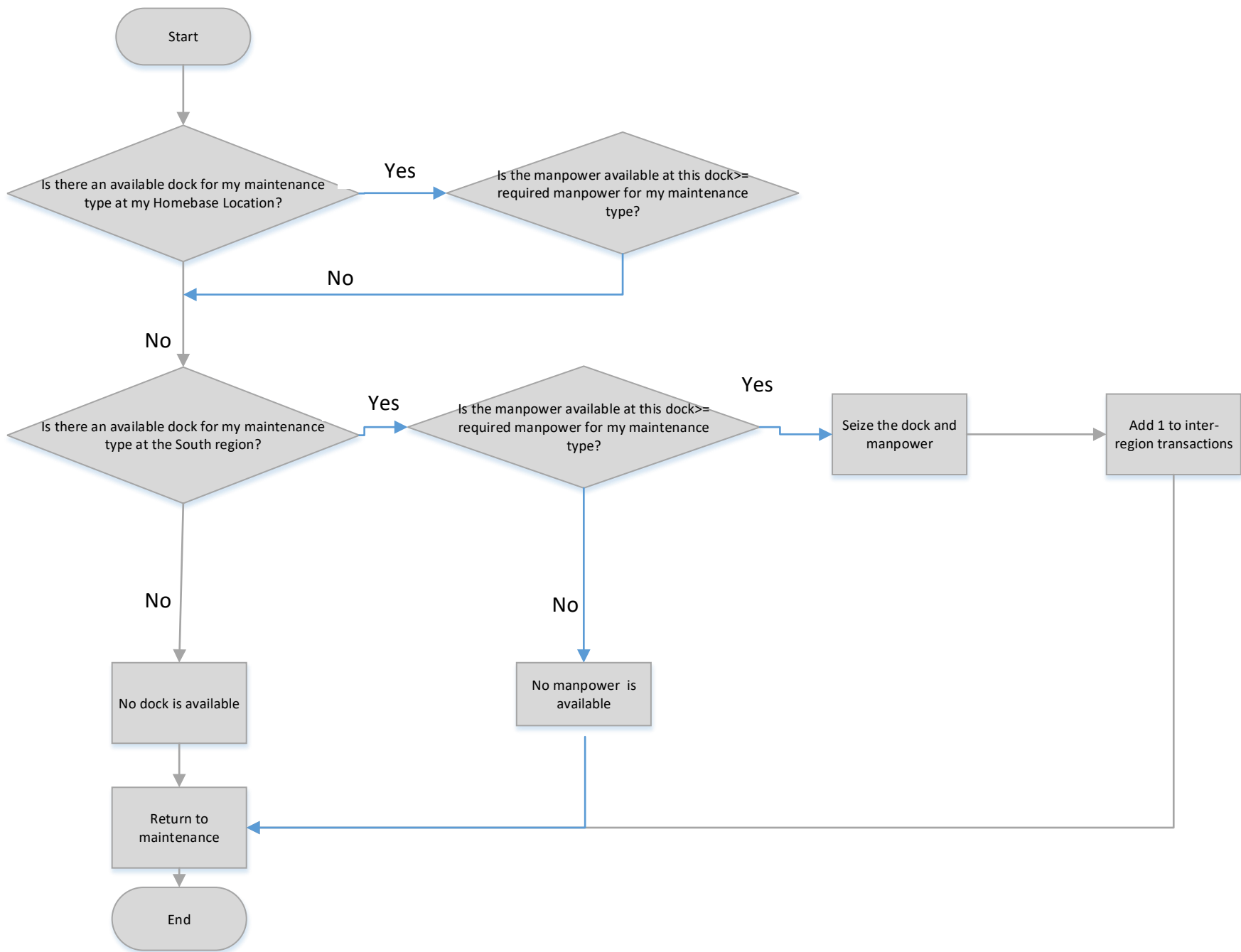
No

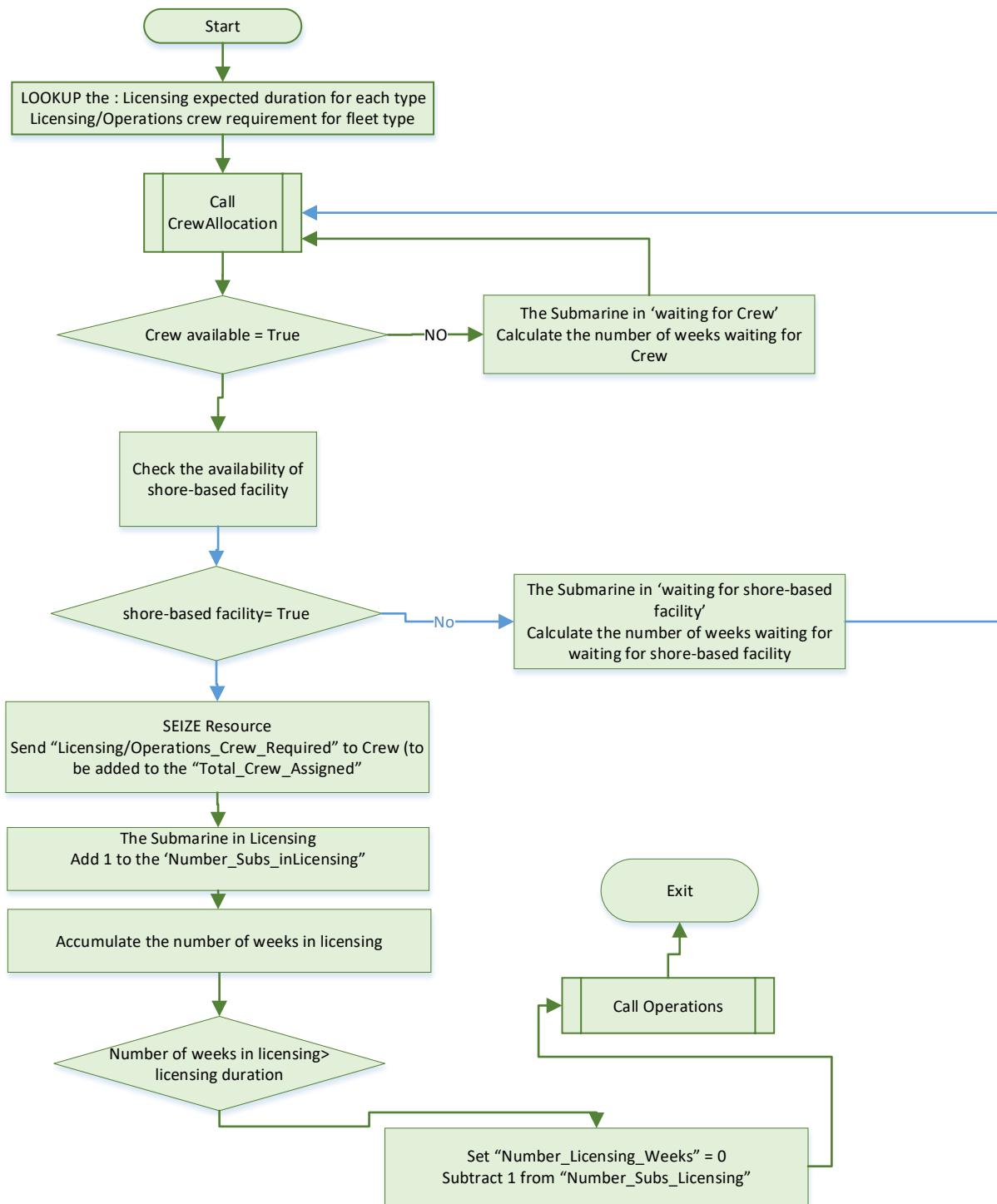
Fleet size of type (i) at homeport (j)

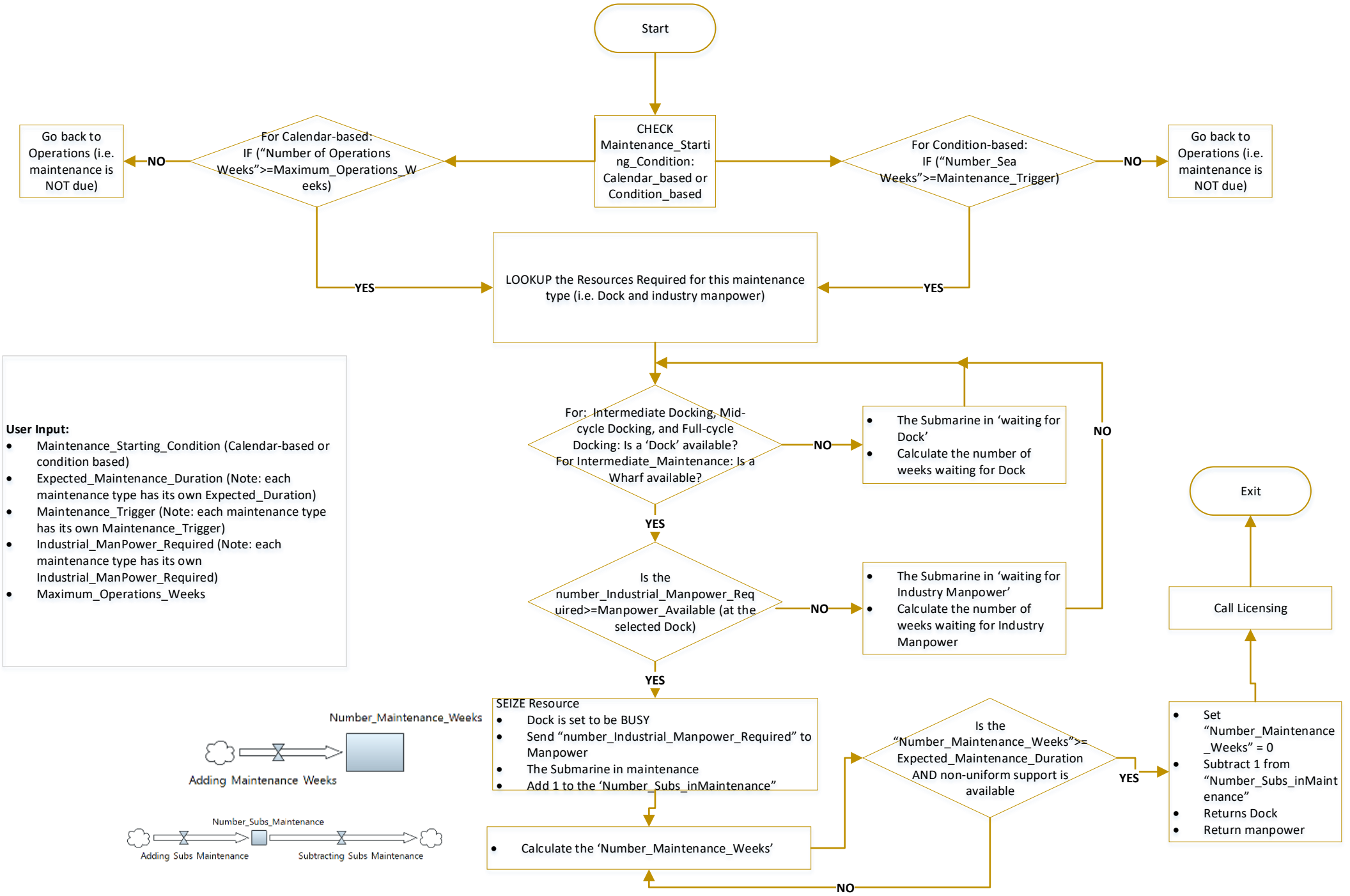
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Retiring subs of type (i) at homeport (j)









**User Input:**

- Maintenance\_Starting\_Condition (Calendar-based or condition based)
- Expected\_Maintenance\_Duration (Note: each maintenance type has its own Expected\_Duration)
- Maintenance\_Trigger (Note: each maintenance type has its own Maintenance\_Trigger)
- Industrial\_ManPower\_Required (Note: each maintenance type has its own Industrial\_ManPower\_Required)
- Maximum\_Operations\_Weeks

