Ship:                 Date:                Whirlpool Spa / Spa pool (identification/name):

**AA. Changeover re-circulation / flow through:**

Date/time of changeover of the seawater whirlpool or spa pool for the 12 nm from nearest land limit to re-circulation (RC) mode with halogenation OR seawater flow through (SWFT) without halogenation (only when vessel making way):

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Distance from land nm | Changeover to re-circulation (RC) or Seawater flow through (SWFLTH) | Remarks (or drained) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**BB. Water Chemistry Monitoring for re-circulating Whirlpool Spa / Spa Pool**

The parameters below must be monitored and adjusted as recommended by the manufacturer to maintain optimum water quality (if no such recommendation is available – test minimum once per day):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Time | Combined Chlorine | Free Chlorine | Total Alkalinity | pH | Clarity | Flow Rate | Bather Load |
| tested  *(ideal is 0, but should be max 0.2-0.5ppm*) | Tested (chart/logger)  *Free Cl = 3- 10 ppm*  *Br= 4-10 ppm* | Tested  *(ideal 80-120ppm*) | Tested (chart/logger)  *pH= 7.0- 7.8* | tested  *by Secchi disk or main drain* | Measured  *Use flow meters*  *(do not use pump rates)* | Evaluated  *One person per five US gallons (19 liters) per minute of recirculation flow* |
|  | Manfctr recommd = | Manfctr recommd = | Mnfctr recommd = | Mnfctr recommd = | Manfctr recommd = | Manfctr recommd = | Manfctr recommd = |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

*Note any adjustments to the above made per manufacturer recommendations (if Free Halogen or pH outside of range the facility must be closed immediately):*

**CC. Fill Level, Turnover Rate, Water change and Shock Halogenation for re-circulating Whirlpool Spa / Spa Pool**

Based on the Flow Rate from the flow meters (see BB.) and the pool volume calculate the turnover rate.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Fill level to the skim gutter level | Turnover rate  (max 0.5 hrs for Whirlpool Spas and 2 hrs for Spa Pools) | Whirlpool Spa water changed latest every 72 hrs\*  (last done=      ) | Spa Pool water changed latest every 30 days\*\*  (last done=     ) | Shock halogenation to at least 10ppm  circulated for at least 1 hr every 24 hrs | | Remarks |
| Chart Start ppm | Chart Stop ppm |
|  |  |  |  |  |  |  |

\*The Whirlpool Spa water, including compensation tank, filter housing, and associated piping, must be changed every 72 hours, provided that the system is operated continuously and that the correct water chemistry levels are maintained during that period, including daily shock halogenation**.**

\*\* Spa Pool water must be changed as often as necessary (but latest every 30 days) to maintain proper water chemistry.

**DD. Filtering of re-circulating Whirlpool Spa / Spa Pool**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **GRANULAR FILTER**  *(below monitoring per manufacturer specifications, unless specified otherwise,* ***in which case the more frequent applies****)* | | | | | **CARTRIDGE FILTER**  *(below monitoring per manufacturer specifications, unless specified otherwise,* ***in which case the more frequent applies****)* | | | | | **OTHER FILTER media** | | **Hair and Lint Strainer** (or filter before the pump**)** |
| Pressure differential (per manufctrr =       ) | Filter back washed  (every 72 hrs or sooner if drained,  last done=     ) | Inspection Results (channels, mounds, holes) and sediment. test -Monthly, last done=      **\*** | Changed  (based on sediment/ inspect. results and/or 12 months,  last done =      ) | Filter housing cleaning, rinsing and disinfection, before new filter media placed in,  at CT=50ppm Cl x 1min  or equivalent | Pressure differential, (per manufctrr =       ) | Cleaned  (interval per manfctr =      ,  last done =      ) | Inspection Results  (cracks, breaks, damage excess. organic. accumultn),  Weekly,  last done =      \*\*) | Changed  (based on inspect. results and/or interval per manfctr =      , last done =      );  at least one spare available: | Filter housing cleaning, rinsing and disinfection before new filter media placed in,  CT=50ppm Cl x 1min or equivalent | Inspection (interval per manctrr =      ,  last done =      ) | Change (interval per manctrr =      ,  last done =      ) | Clean, rinse and disinfect strainer and housing -Weekly,  CT=50 ppm Cl x 1 min., or equivalent,  last done = |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

***\* Indicate Inspection Result of Granular Filter as “Clear” or “Not Clear”; or “Good” or “Not Good”***

***\*\* Indicate Inspection Result of Cartridge Filter as “Good” or “Not Good”***

*Any major maintenance work on the filtration (and halogenation and UV systems):*

Hotel/ Ship Services Engineer:       Staff Captain:       Date:

*Maintain this log onboard for at least 12 months, along with any chard analyzer recording or electronic data log, if fitted*