Ship:                 Date:

**AA. Manual record of free halogen or pH levels IN THE EVENT OF AUTOMATED RECORDING EQUIPMENT FAILURE:**

- **In the event of failure of the automated chart recorder/logger,** free residual halogen and pH is to be measured by a manual test kit and recorded below every hour. Repair must be completed within 30 days)

-Annotations for unusual events and corrective actions taken are to be recorded:

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| Whirlpool Spa / Spa Pool ID. | Time (every hour) | Type of Halogen used:  Cl or Br | Free residual value (ppm)  Free Cl = 3-10ppm  Br= 4-10 pppm | pH level 7.0 to 7.8 | Shock Halogenation  (to min 10ppm for at least 1 hr every 24 hrs)  [RWF with seawater exempt] | | Annotations for unusual events and corrective actions | Sign. Respons. Officer |
| Start ppm | Stop ppm |
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*Any major maintenance work on the halogenation and UV systems:*

**BB. Whirlpool Spa /Spa Pool closed due to values outside the correct free halogen or pH levels:**

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| --- | --- | --- | --- | --- | --- | --- |
| **Time closed** | **Halogen level** | **pH level** | **Time opened** | **Halogen level** | **pH level** | **Remarks** |
|  |  |  |  |  |  |  |
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Hotel/ Ship Services Engineer:       Staff Captain:

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