

The following actions have been taken to correct each of the deficiencies noted during inspection of the Nautilus Explorer on July 12, 2002, at Ketchikan, Alaska.

Item Number Deficiency / Corrective Action

1. The pre-testing of pH and free available chlorine will be recorded in a log and kept onboard for 12 months.
2. We are currently investigating the types of portable test kits for E. coli. Also, we are attempting to contact all water authorities in ports where water is bunkered to know which ports have microbiologic reports available.
3. A potable water hose locker will be installed onboard the Nautilus Explorer this winter in accordance with U.S. Public Health Service (USPHS) requirements.
4. Corrective action deferred. Please see Note 1.
5. Variance request to follow (regarding potable water tanks sharing walls with the hull of the ship).
6. Sample valve(s) / cock(s) will be installed during next dry dock (Winter 2002).
7. Corrective action deferred. Please see Note 1.
8. A chlorine analyzer will be installed during next dry dock (Winter 2002), as per USPHS requirements. In regards to the backup halogenation pump, corrective action deferred. Please see Note 1
9. We are currently investigating the types of portable test kits for E. coli.
10. Corrective action deferred.
11. Corrective action deferred.
12. Corrective action deferred.
13. Corrective action deferred.
14. Absorbent wooden handled utensils have been removed from the galley and replaced with utensils made with corrosion-resistant, nonabsorbent and smooth material(s).
15. Galley is to undergo an overhaul / re-fit during next dry dock (Winter 2002). The current handwashing sink is to be removed and two sinks installed in its place (one food preparation sink and one handwashing sink).
16. Galley is to undergo an overhaul / re-fit during next dry dock (Winter 2002) and shall ensure all food containers shall be stored at least 15 centimeters above the deck.
17. The Garland oven and the upper deck barbeque grills have been fully cleaned and shall be cleaned more frequently to keep them free of encrusted grease deposits and other soil accumulations.
18. Galley is to undergo an overhaul / re-fit during next dry dock (Winter 2002) and shall ensure all bins containing clean utensils shall be stored at least 15 centimeters above the deck.
19. Corrective action deferred.

20. Galley is to undergo an overhaul / re-fit during next dry dock (Winter 2002) and a vented shield shall be installed above the refrigeration and freezer units.
21. More frequent cleaning of the top of the reach-in refrigerator and freezer units shall be conducted.
22. Corrective action deferred.
23. More frequent cleaning of exterior surfaces around the perimeter of the range and surrounding equipment shall be conducted.
24. Corrective action deferred.
25. The surface beneath the microwave oven shall be cleaned at a more frequent interval.
26. Oven mitts have been replaced.
27. Corrective action deferred.
28. A comprehensive cross-connection control program shall be fully integrated into the vessel during the next dry dock (Winter 2002) and they shall be periodically inspected.
29. A new ice machine shall be installed during the next dry dock (Winter 2002) as per USPHS requirements.
30. For future arrivals in the U.S.A., a gastrointestinal illness report shall be made between 24 - 30 hours prior to arrival in the first U.S. port.

Note 1: In regards to item numbers 4 & 7, we propose that a continuous chlorine monitor be installed to monitor the effectiveness of our manual batching of the ship's potable water (with a low chlorine alarm). All records will be available for your review. We are confident in the accuracy and effectiveness of our manual batching system given that the ship is very small and carries a limited amount of potable water. We don't want to purchase a costly automatic system unnecessarily if our current method works and there is no risk to public health. Alternatively, if our manual batching is not working well (as demonstrated by the logs from the monitor), we undertake to install an automatic injection system as soon as possible.

Sincerely,

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