**NIPWG VTC-04 2021 9.1.1**

## Paper for Consideration by NIPWG

## Expanded Marine Traffic Management (S-127) Test Data Set—The Way Forward

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| ***Submitted by:*** | NGA (US) |
| ***Executive Summary:*** | Developing the Revision (Version 1.1.0) of the Product Specifications of Marine Traffic Management (S-127) |
| ***Related Documents:*** | ENC Product Specification (S-101)  IALA Aids to Navigation (AtoN) Product Specification (S-201)  M-3 (IHO Resolution 2/2007 as amended) |
| ***Related Projects:*** | None |

## Introduction/Background

The Canadian Hydrographic Service (CHS) requested NIPWG expand the scope of the S-127 Test Data Set by including information on Bridges, Locks, and Canals. As NGA was the lead Member State in the development of the original S-127 Test Data Set, the NIPWG Chair requested NGA develop the initial expansion information.

## Analysis/Discussion

Based on discussions conducted at NIPWG 8, the S-127 Test Data Set will be expanded to include information on Bridges and Locks. Work will continue to integrate this new information into the S-127 Product Specifications for eventual submission to the HSSC.

## Conclusions

The process to upgrade the S-127 Product Specification should be, as follows:

1. Add the new Bridges and Locks information into the expanded S-127 Test Data Set.
2. Integrate Bridges and Locks into the S-127 Product Specifications/UML diagrams/Digital Capture and Encoding Guide:
   1. What new Features and Attributes would need to be developed for the updated Product Specification, if any?
   2. Looking for help to complete this development.
3. In accordance with M-3 IHO Resolution 2/2007 as amended, submit the updated S-127 Product Specifications as a Revision (amended to Version 1.1.0) to HSSC 14.

**Appendices**

Appendix 1—Bridges (Section 2.1.3—Le Petomane Memorial Bridge).

Appendix 2—Locks (Section 2.1.4—Madeleines Locks).

## Action Required of NIPWG

The NIPWG is invited to:

a. Note this paper.

c. Provide input regarding the addition of new Bridges and Locks sections to the S-127 Product Specification/UML diagrams/Digital Capture and Encoding Guide.

**Appendix 1—Bridges**

**2.1.3 Le Petomane Memorial Bridge**

The Le Petomane Memorial Bridge, operated by the Jussland Port Authority, crosses the N end of Chenal de Croissant from the NW extremity of Ile de Croissant, extending about 1 mile NW to Pointe Baguette, on the main island. A vertical lift span, which allows vessels to transit through Chenal de Croissant, has the following clearances:

1. Horizontal clearance: 100m
2. Vertical clearance (lowered): 10m
3. Vertical clearance (raised) 30m

The bridge operates on the following schedule:

| **Days** | **Time (Local)** | **Remarks** |
| --- | --- | --- |
| Monday to Friday | 0730-0830 and 1700-1830 | Bridge does not open to vessel traffic |
| 0830-1700 | Opens on signal |
| 0000-0730 and 1830-2400 | Opens on signal with a 12-hour advance notice to the Bridgetender |
| Saturday to Sunday | 0730-2000 | Opens on signal |
| 0000-0730 and 2000-2400 | Opens on signal with a 12-hour advance notice to the Bridgetender |

The Bridgetender can be contacted, as follows:

1. Call sign: LP Bridge
2. VHF channel: VHF channel 12
3. Telephone: 1-999-23459876
4. Facsimile: 1-999-23459877
5. E-mail: [lpbridge@jussland.net](mailto:lpbridge@jussland.net)

Bridge operating signals can be seen in the table titled **Le Petomane Bridge—Signals**.

| **Le Petomane Bridge—Signals** | |
| --- | --- |
| **Signal** | **Meaning** |
| Two long blasts from vessel | Request bridge opening. |
| Two long blasts from bridge | Bridge will open. |
| Five short blasts from bridge | Bridge will not open. |
| Siren from bridge | When in closed position. Bridge will be opening. |
| When in open position. Bridge will be closing. |
| Fixed green light on bridge centerline and fendering system | Bridge in fully open or closed position. Vessel transit permitted. |
| Flashing red light on bridge centerline and fendering system | Bridge in opening or closing process. Vessel transit prohibited. |

**Appendix 2—Locks**

**2.1.4 Madeleines Locks**

The Madeleines Locks, operated by the Jussland Port Authority, are located at the entrance to Baie de Madeleines, about 15 miles SW of the S extremity of Ile de Croissant. The facility consists of an inbound lock and an outbound lock, both with the following dimensions:

1. Length: 91.5m
2. Width: 15.2m
3. Depth: 5.0m

Based on lock clearances and layout, the following vessel limitations are in effect:

1. Maximum vessel length: 80.0m
2. Maximum vessel breadth: 13.5m

The Madeleines Locks operate, as follows:

1. From 0000, 15 December to 2400, 31 December—Locks are closed to vessel traffic for major maintenance and repairs.
2. From 0000, 1 January to 2400, 15 January—Locks are closed for major maintenance and repairs.
3. From 0000, 16 January to 2400, 14 December—Locks are open 24 hours to vessel traffic except the locks are closed for maintenance, as follows:
4. From 0000 to 2400 on the first Sunday in April.
5. From 0000 to 2400 on the first Sunday in July.
6. From 0000 to 2400 on the first Sunday in October.

**Note.—**All times are local time.

Vessels must send their ETA to the Lockmaster 24 hours prior arrival. The Lockmaster can be contacted, as follows:

1. Call sign: Madeleines Locks
2. VHF: VHF channel 10
3. Telephone: 1-999-23456543
4. Facsimile: 1-999-23456544
5. E-mail: [madeleineslocks@jussland.net](mailto:madeleineslocks@jussland.net)

Lock signals are displayed on the NE wall of the inbound lock and on the SW wall of the outbound lock. See the table titled **Madeleines Locks—Signals**.

| **Madeleines Locks—Signals** | | |
| --- | --- | --- |
| **Signal** | | **Meaning** |
| Three fixed red lights, horizontally disposed. |  | Lock gate closed. Vessels may not approach. |
| Three fixed yellow lights, horizontally disposed. |  | Lock filling. |
| Three flashing yellow lights, vertically disposed. |  | Lock gate opening. |
| Three fixed green lights, vertically disposed. |  | Lock gate open. Vessels may approach. |
| Three flashing red lights, horizontally disposed |  | Lock gate closing. |