 Input paper: [[1]](#footnote-1) ENG2-9.12

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM **x** ENG **□** PAP **□** Input

**□** ENAV **□** VTS **x** Information

Agenda item [[2]](#footnote-2) 9 (ref ENG1 action 26)

Technical Domain / Task Number 2 Visual & Physical AtoN, flash characters / 5.1.6

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CEREMA

National AtoN character list (French list)

1. Summary

To prepare the update of IALA-Recommendation E-110 for the Rhythmic Characters of Lights on AtoNs, it was decided to collect information on the national characters lists (Action item 26 of report ENG 1).

1. List

List of flash characters used for lights on buoys and small lights in France.

For lateral lights, we can go up to 4 grouped flashes (Fl), with increasing of the rhythm from one gate to the following one.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Period [s] | Sequence [s] | Colour | Description |
| OC | 4 | 3 + (1) | W, R, G | Lateral |
| OC2 | 6 | 3 + (1) + 1 + (1) | Y | Special mark |
| OC3 | 12 | 4,5 + (1,5) + 2x [1,5 + (1,5)] | Y | Special mark |
| OC4 | 12 | 5 + (1) + 3x [1 + (1)] | Y | Special mark |
| ISO | 4 | 2 + (2) | W, R, G | Lateral, small lights |
| FI | 4 | 1 + (3) | W, R, G, Y | Lateral, Cardinal, Special mark |
| FI long | 10 | 3 + (7) | W | small lights |
| FI(2) | 6 | 1 + (1) + 1 + (3) | W, R, G | Lateral, small lights |
| FI(3) | 12 | 2 x [1 + (1,5)] + 1 + (6) | W, R, G | Lateral, small lights |
| FI(4) | 15 | 3 x [1 + (1,5)] + 1 + (6,5) | W, R, G, Y | Lateral, small lights, special marks |
| FI(5) | 20 | 4 x [1 + (1,5)] + 1 + (9) | Y | Oceanic (ODAS) |
| FI(2+1) |  | 0,6 + (0,6) + 0,6 + (1,8) + 0,6 + (5,8) | Y | special marks |
| Q | 1,2 | 0,6 + (0,6) | W, R, G | north cardinal, lateral |
| Q(3) | 10 | 2 x [0,6 + (0,6)] + 0,6 + (7) | W | east cardinal |
| Q(6) + LFI | 15 | 6 x [0,6 + (0,6)] + 3 + (4,8) | W | south cardinal |
| Q(9) | 15 | 8 x [0,6 + (0,6)] + 0,6 + (4,8) | W | west cardinal |
| VQ | 0,6 | 0,3 + (0,3) | W, R, G | north cardinal, lateral |
| VQ(3) | 5 | 2 X [0,3 + (0,3)] + 0,3 + (3,4) | W | east cardinal |
| VQ(6) + LFI | 10 | 6 X [0,3 + (0,3)] + 3 + (3,4) | W | south cardinal |
| VQ(9) | 10 | 8 X [0,3 + (0,3)] + 0,3 + (4,9) | W | west cardinal |
| MO(A) | 12 | 1 + (1) + 3 + (7) | W | safe water mark, Morse A |
| MO(U) | 15 | 2 X [0,4 + (0,5)] + 1,2 + (1,2) | W | Offshore structures, Morse U |
| FI(2) | 10 | 1 + (2) + 1 + (6) | W | isolated danger |
| FI | 2,5 | 0,5 + (2) | W, R, G | Lateral, small lights |
| FI(2) | 6 | 0,2 + (1,4) + 0,2 + (4,2) | W, R, G | Lateral, small lights |
| FI(3) | 12 | 2 x [0,5 + (2)] + 0,5 + (6,5) | W, R, G | Lateral, small lights |
| FI(4) | 15 | 3 x [0,5 + (2)] + 0,5 + (7) | W, R, G, Y | Lateral, small lights, special mark |
| FI(5) | 20 | 4 x [0,5 + (2)] + 0,5 + (9,5) | Y | Oceanic (ODAS) |
| Q | 1,2 | 0,2 + (1) | W, R, G | north cardinal, lateral |
| Q(3) | 10 | 2 x [0,2 + (1)] + 0,2 + (7,4) | W | east cardinal |
| Q(6) + LFI | 15 | 6 x [0,2 + (1)] + 3 + (4,8) | W | south cardinal |
| Q(9) | 15 | 8 x [0,2 + (1)] + 0,2 + (5,2) | W | west cardinal |
| VQ | 0,6 | 0,2 + (0,4) | W, R, G | north cardinal, lateral |
| VQ(3) | 5 | 2 X [0,2 + (0,4)] + 0,2 + (3,6) | W | east cardinal |
| VQ(6) + LFI | 10 | 6 X [0,2 + (0,4)] + 3 + (3,4) | W | south cardinal |
| VQ(9) | 10 | 8 X [0,2 + (0,4)] + 0,2 + (5) | W | west cardinal |

Numbers without brackets: duration of appearance in seconds.

Numbers with brackets: duration of eclipse in seconds

Blue lines : low power consumption (recommended for old light sources when possible – less and less used with LED sources)

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)