**O-139 SUGGESTION FOR ENHANCED EDITION FOR ANM 19/WG1**

* *Improve existing text in line with work in progress document (e.g. consistency of references)*
* *Recommend revising the order of sections/chapters.*
* *Recommend better definition of AtoN ranges, e.g. candelas, Normal/Usual audible ranges?*
* *Consider Flow Charts? To encourage risk assessment considerations, etc.*
* *Consider Matrices? To encourage understanding at a very basic level.*
* *Consider improving photos/graphics/diagrams. To encourage understanding.*
* *Consideration notes on RACON, e.g. interference, shadow/reflected images.*
* *Consideration notes on AIS AtoN, e.g. general management, proliferation, real/synthetic.*
* *Suggested abbreviations are included [in square brackets].*

INTRODUCTION

* Scope
* Field of Application
* Information – to include Definitions/Abbreviations (from Glossary), Selection Matrix.
* Include Definitions as presently in Appendix 1.

MARKING OF OFFSHORE STRUCTURES

* **General**
  + Items listed above – as appropriate.
  + Combinations of structures
  + Combinations of renewable energy devices
* **Offshore Platforms**
* Isolated Platforms
* Grouped Platforms
  + - Include layout diagram(s)
    - Build Phase Considerations\*
    - Operational Marking
    - De-commissioning

*\* control measures? boundaries? demarcation? floating AtoN? guard ships?*

* **Offshore Wind Installations**
  + - Include layout diagram(s)
    - Build Phase Considerations\*
    - Operational Marking
    - De-commissioning

*\* control measures? boundaries? demarcation? floating AtoN? guard ships?*

* Isolated Wind Turbine Generators
  + Fixed [IWTG]
  + Floating [IWTG(F)]
* Grouped Wind Turbine Generators (Offshore Wind Farms/Wind Parks)
  + Fixed [OWF]
  + Floating [OWF(F)]
* Offshore Sub Station [OSS]
* Meteorological Mast [OMM]
* **Wave and Tidal Installations**
  + - Include text (*not diagrams due to the very large variety of configurations*)
    - Build Phase Considerations\*
    - Operational Marking
    - De-commissioning

*\* control measures? boundaries? demarcation? floating AtoN? guard ships?*

* **Aquaculture Installations**
  + - Include summary text and table (to condense existing text/diagrams)
    - Build Phase Considerations\*
    - Operational Marking
    - De-commissioning

*\* control measures? boundaries? demarcation? floating AtoN? guard ships?*

* **Future Considerations/Potential Development**