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Agenda item [[2]](#footnote-2) n.n

Technical Domain / Task Number 2 …WG2/ new task……..………

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Draft Outline for New Guideline on Buoy Tender Crew Operation

# Summary

In order to provide assistance for the committee to develop a new guideline, this paper contains a draft outline and some proposals for new guideline on buoy tender operation.

## Related documents

ENG14-3.2.9 Pre-job training course for buoy tender crew

ENG15-3.1.2.3 Proposals on new guidelines on buoy tender crew operation.

# Background

Currently, there is lack of necessary information on buoy tender operation among IALA standards/guidelines/recommendations or courses, however, operation on buoy tender is one of the key components of routine AtoN management, and with most safety risk as well. In ENG 14, China MSA had submitted *ENG14-3.2.9 Pre-job training course for buoy tender crew* during the meeting, while discussion, delegates believed strengthen the guidance on buoy tender operation was necessary, but there was no proper guidelines or recommendations or courses in IALA framework, it`s better to develop a guideline in this step. At ENG 15, China MSA had submitted *ENG15-3.1.2.3 Proposals on new guidelines on buoy tender crew operation,* after discussion, the committee agreed to push the work forward.

# Discussion

China MSA considers a international guideline for buoy tender operation should be of general applicability, and produced through co-operation among different member states within IALA framework. The guideline should focus on nature of buoy tenders and highlight safety guidance, and should not be confused with other guidelines for general seagoing vessel.

## Objective of the guideline

To provide operational guidance for crew on buoy tender, and help them to get quick familiar with safety operations onboard, including emergency procedures, so as to perform their work safely, efficiently and smoothly.

## Scope of the guideline

For crew working onboard buoy tender, including bridge officers and deck crew or worker.

## Essential components of the guideline

The guidelines contains safety operation guidance on buoy tender, should contain information including: operation machines on buoy tender, job responsibility on buoy tender, buoy character, general buoy operation procedure, safety risk, emergency procedures, some section should contain information:

|  |  |  |
| --- | --- | --- |
| Item | Section | description |
| 1 | Operation machines | Introductions to buoy tender machines and equipment, including operation deck, buoy pipe, buoy store cabin, crane, winch, chain guiding device, string, rope, sleeper, tie tool and so on. |
| 2 | Job responsibility | Introductions to basic job information and responsibility of bridge, deck, and engine department. |
| 3 | Buoy character | Introductions to basic buoy characteristic relating to buoy tender operation. |
| 4 | Introductions to buoy mooring system, buoy position and method of calculation. |
| 5 | General buoy operation | Loading and unloading procedure. |
| 6 | Buoy launching procedure. |
| 7 | Buoy recover procedure. including general recover operation and operation of recover drifting buoy. |
| 8 | Position resetting procedure. |
| 9 | Inspection of mooring system. |
| 10 | Large buoy(light ship) operation. |
| 11 | Alongside operation(fix mark/off-shore structure) |
| 12 | Safety procedure | Preparation before operation. Making work plan, preparation of machinery, collection and analyse of weather/sea/traffic information, pre-departure check. |
| 13 | Personal protection. |
| 14 | Lifting buoy at sea |
| 15 | Positioning of buoy. |
| 16 | Berthing and unberthing to buoy. |
| 17 | Loading and unloading and transfer between berth. |
| 18 | Large buoy operation. |
| 19 | Searching and recovery of drifting buoy. |
| 20 | Operation when rough sea condition. |
| 21 | Risk management | Risk checklist. |
| 22 | Controlling measures. |

1. Essential component of the guideline

## Other consideration of the guideline

The guideline is to focus on safety guidance of buoy tender operation, and should avoid lengthy discussion in ship design requirement/general buoy character/general vessel maneuvering and other detailed issues with little relation to buoy tender operation, instead, some reference from IALA or IMO can be provided in the guideline if necessary.

# References

1. R0118 (O-118) THE RECORDING OF AIDS TO NAVIGATION POSITIONS
2. G1035 AVAILABILITY AND RELIABILITY OF AIDS TO NAVIGATION ‐ THEORY AND EXAMPLES

# Action requested of the Committee

The Committee is requested to take consideration of the proposals contained in this document and take notice to the annex, take action as appropriate.

ANEX. Draft Outline for New Guideline on Buoy Tender Crew Operation

1. INSTRUCTION
   1. Backgroud
   2. Scope
2. Objective
3. buoy tender
   1. Machine and Equipment
   2. Job responsibility
4. Basic buoy characteristic
   1. Buoy structure and key points of maintenance onboard.
   2. Mooring system and position calculation.
5. Operation of buoy tender
   1. Loading and unloading.
   2. Buoy launching.
   3. Buoy recover.
   4. Position reset.
   5. Inspection of mooring system.
   6. Large buoy(light ship) operation.
   7. Alongside operation(fix mark/off-shore structure).
6. safety procedure
   1. Preparation before operation.
   2. Personal protection.
   3. Lifting buoy at sea.
   4. Positioning of buoy.
   5. Berthing and unberthing to buoy.
   6. Loading/unloading and transfer between berth.
   7. Large size buoy(light ship) operation.
   8. Searching and recovery of drifting buoy.
   9. Operation when rough sea condition.
7. risk management
   1. Risk checklist.
   2. Controlling measures.
8. acronym
9. reference

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