Activities and View of the Malacca Strait Council

The 8th Co-operation Forum (5-6 October 2015)
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1. Background of the Establishment of the Malacca Strait Council (1)

- Lack of Aids to Navigation and Navigational Charts for the VLCC in 1960s.
- Increase in the numbers of Large Oil Tankers.
- Strongly requested by Japan Captains’ Association & Association relating to Tanker operation.
- “Torry Canyon” disaster... Oil pollution
Navigational Safety in the Straits was discussed by IMCO.

The Government of Japan sounded out to the Littoral States about its intention of cooperation for the enhancement of safety of navigation in SOMS.

Preferable way is to establish NPO in Japan and through that NPO, Malacca Strait Council (MSC), to conduct the cooperation activities.

Thus, MSC was established by the financial support from the Nippon Foundation and Japanese industries in 1969.

MSC’s activities is in collaboration with the Government of Japan and Japanese private sectors.
2. Major Activities of MSC in 1969-2004 (1)

* Hydrographic Survey in the Straits
* Removal of Shipwrecks
  1973~1978  1.4 billion yen
* Installation of Aids to Navigation (total 45 in 30 sites)
  1969~2000  2.8 billion yen
* Co-operation in Maintenance of Aids to Navigation
  1969~2002  2.5 billion yen
* Donation of the Buoy Tender vessels (Pedman, Pedman, Jadayat)
  1976, 2002 & 2003  2.1 billion yen
2. Major Activities of MSC in 1969-2004 (2)

* Dredging works in the Strait of Singapore
  1979     1 billion yen
* Donation of Revolving Fund
  1981     400 million yen
* Donation of Oil Skimming Vessel to Singapore
  1973     50 million yen
* Studies for the Maritime Safety in the Straits
  1969～2002
Removal of Shipwrecks
Construction of the Beacon

Tg. Gabang Light Beacon in Malaysia, Dec. 2000
Donation of the Buoy Tender Vessel

Malaysian 「PEDOMAN」 2002.5

Indonesian 「JADAYAT」 2003.10
Examples of Improvement

TAKONG L/H, IYU KECIL L/H, NIPA RLB, Pu.MUNGGING L/BN
Traffic Separation Scheme in the Straits

Adopted by IMO in 1980

Adopted by IMO in 1998
Location of Aids to Navigation for TSS

28 Locations in Indonesia:

18 Locations in Malaysia:
3. Major Activities of MSC at Present

* Contribution to Aids to Navigation Fund

* Aids to Navigation Committee member

* Work Performance Auditor for the Inspection and Maintenance Work for Aids to Navigation appointed by the Aids to Navigation Fund Committee
3-1. Japanese Side Cooperation for ANF

Japanese Side Cooperation

Nippon Foundation
- Japanese Shipowners’ Association
- Petroleum Association of Japan
- Others

Malacca Strait Council
- Work Performance Auditor

Government of Japan (Ministry of Land, Infrastructure, Transport and Tourism)
- Capacity Building
- Maintenance
- Work Inspection

Aids to Navigation Fund (Aids to Navigation Fund Committee)

Financial Cooperation

Technical Cooperation
3-2. Contribution from MSC to the Aids to Navigation Fund (2009-2014)

* 2009  US$500,000
* 2010  US$500,000
* 2011  US$500,000
* 2012  US$500,000
* 2013  US$500,000
* 2014  US$300,000

• Total  US$2,800,000  (About 14.5% of total amount of contribution from 2009 to 2014)
3-3. Work Performance Auditor for ANF Inspection and Maintenance

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- Malaysia
- Indonesia
- Technical Workshop
18 Identified Malaysian Aids to Navigation
28 Identified Indonesian Aids to Navigation
Principal Contents of Maintenance Inspection Work (1)

As the appointed Wok Performance Auditor

Functional Inspection

* Light Character (rhythm)
* Functional checking of flasher device and lump changer
* Bulb (darkness, failure)
* Condition of the lantern and lens
* Connecting cables
* Analysis of storage batteries, voltage, conductance and specific gravity
* Output voltage of solar panels
* Functional checking of automatic generation system for emergency power
* Condition checking of lightning arrester, lightning rod and grounding
* Ground impedance reading at lighthouse
* Validity checking of anti-corrosion inhibitor in the equipment
* Signal detection of radar beacon
As the appointed Wok Performance Auditor

Related Facilities Inspection

Principal Contents of Maintenance Inspection Work (2)

* Paint deterioration
* Rotting condition of wooden materials
* Checking of cracks of concrete structure
* Observation of corrosion of steel structure
  and if necessary, chipping and touch-up painting.
* Correction of loosened lifting-eye of a sinker (light buoy)
* Checking of wear of chain (light buoy)
* Cleaning of bird droppings
* Checking of safety in the access including a jetty to the Aids to Navigation
* Mowing weeds on access roads
Difficulties on the Operation and Maintenance

Major Cause of Functional Obstacles

* Ship’s Collision (Collapsed • Damaged • Drifted) to AtoN
* Vandal Theft  stealing the equipment and parts
* Intentional Destruction
* Lightning Struck
* Deterioration of Equipment
* Birds Droppings to solar panels
History of Japan’s Cooperation on Hydrographic Survey in SOMP

* 1969-1975
  Joint Hydrographic Survey by Littoral States and Japan (Malacca Strait Council and OTCA (present JICA))
* 1996-1998
  Joint Hydrographic Re-survey by Littoral States and JICA.

16 years has passed

- Condition of sea beds in some area has changed due to strong tidal current.
- Technology has been advanced. Survey equipment of Single-beam echo-sounder to Multi-beam echo-sounder.
In response to the request from the Littoral States at the 4th MEHWG meeting, MSC in cooperation with the Japanese Shipowners’ Association (JSA) and Japan Hydrographic Association (JHA) has decided to contribute the conduct of a joint hydrographic re-survey of 5 critical areas in SOMS to be implemented from 2015-2016.

5 re-survey area of SOMS

- **One Fathom Bank**
  - 30Km²
  - Indonesia

- **Off Cape Rachado**
  - 68Km²
  - Malaysia

- **Buffalo Rock**
  - 10Km²
  - Indonesia

- **Off Pulau Sebarok West side of TSS**
  - 5Km²
  - Indonesia

- **Batu Berhanti**
  - 5Km²
  - Indonesia
4-1. 3rd time Joint Hydrographic Re-survey - Phase 2

- In response to the request from Littoral States of SOMS, Japan proposed the survey for shallow areas of TSS other than the Phase 1 project to be financed by Japan-ASEAN Integration Found (JAIF).
- MSC will Jointly implement the survey with the Littoral States.

(Content and procedure of re-survey)

- Joint hydrographic re-survey using Multi beam echo sounder at remaining of the shallow areas of TSS (35%)
- Electronic Navigation Chart will be updated.

(Implementation Period)

2016-2019 (Tentative)
MSC would like to propose a new study for the enhancement of the safety of navigation in SOMS.

The content of a study proposal will be explained in this 8th Cooperation Forum.

Continuous cooperation among Littoral States, User states, Users and International Organization is essential for the enhancement of the safety of navigation and the protection of environment in SOMS.
Thank you