How to prepare Report for Ship Security Assessment

December 2003

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Purpose of preparing the report

- *The purpose is to explain the methods of the SSA and concrete vulnerabilities and countermeasures identified to any person upon completion of the entire SSA (Stage 1 to 5)*

Page 1/ Preparation

① Ship's specification
② Date of acceptance of the SSA by the CSO
   •Where the SSA has been conducted by the CSO, "N/A" should be entered

Page 2/ 5 Stages of SSA

- *1st stage :Identification of possible threat motives and risks*
- *2nd stage :Identification of shipboard operation to protect*
- *3rd stage :Identification and evaluation of possible threat scenario*
    - *(5th stage :Re-evaluation after 4th stage）*
- *4th stage :On-scene Security Survey*
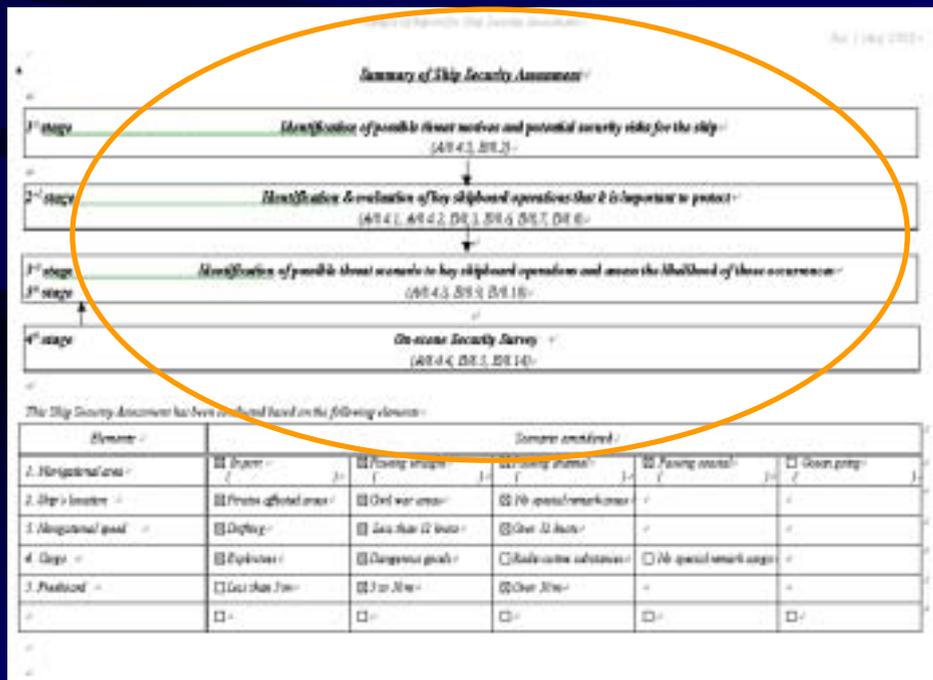
Page 2/ Preparation

• *Select items such as navigational area, location, ship's speed, type of cargo, freeboard and etc. that should be considered.*

Summary of Ship Security Assessment

1st stage	Identification of possible threat motives and potential security risks for the ship (A/8.4.3, B/8.2)
2nd stage	Identification & evaluation of key shipboard operations that it is important to protect (A/8.4.1, A/8.4.2, B/8.3, B/8.6, B/8.7, B/8.8)
3rd stage .... 5th stage	Identification of possible threat scenario to key shipboard operations and assess the likelihood of those occurrences (A/8.4.3, B/8.9, B/8.10)
4th stage	On-scene Security Survey (A/8.4.4, B/8.5, B/8.14)

This Ship Security Assessment has been conducted based on the following elements

Elements	Scenario considered				
1. Navigational area	☒ In port ( )	☒ Passing straight ( )	☒ Passing channel ( )	☒ Passing coastal ( )	☐ Ocean going ( )
2. Ship's location	☒ Pirates affected areas	☒ Civil war areas	☒ No special remark areas		
3. Navigational speed	☒ Drifting	☒ Less than 12 knots	☒ Over 12 knots		
4. Cargo	☒ Explosives	☒ Dangerous goods	☐ Radio active substances	☐ No special remark cargo	
5. Freeboard	☐ Less than 5 m	☒ 5 to 10 m	☒ Over 10 m		
	☐	☐	☐	☐	☐

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Page 3/ Preparation

Records of appropriate background information
① *"Yes" means the available information*
② *If "No", state the reasons or comments*

Page 4/ Preparation

Where the following item is considered, tick "Yes"
① *persons, activities, services and operations (B/8.8)*
② *possible vulnerabilities (B/8.10)*
③ *special consideration (B/8.11)*

Identify the possible threat motives and risks　(1)

• *List up and classify possible incidents into political and symbolic motives, economical damages, damage to society/industry, fears to others, etc., for consideration.*

• *(Specific countermeasures might be come up while being considering these possible incidents)*

Identify the possible threat motives and risks（2）
- *Tick "Unlikely" if consider it might not occur*
- *Tick "Probable" if consider it might occur*
- *Tick "Likely" if consider it could occur*

Page 5/ 1st Stage (3/3)

Identify the possible threat motives and risks （3）
- *State the comments for considering the countermeasures*
- *Also, state the reason why "Likely" is chosen*

Page 7/ 2nd Stage (1/3)

Note :Before conducting 2nd stage
- *Prepare the tentative security measures for the items recommended by B/9.8*
- *List the detailed items to be considered for mainly on security measures recommended by B/9.8*

- *Criticality is to be classified in "High" or "Low"*

- *The existence of security measures for each items is to be checked*
  - *Tick "Yes" or "No", and state an outline in the right column*
  - *If "No", state the possible measures to be considered in the right column*
  - *If the security measures are considered as insufficient even in "Yes" case, state the further measures in the right column*

• *List up the possible cases of threat scenarios recommended by B/8.9*

• *If the scenarios is considered as not relevant to the ship, "No" may be ticked*

• *In case of "No", the right columns should be blank*

• *Consider the <u>possible consequence</u> if such cases occur*
• *Possible consequence may be judged by the assessor, since it has no scale.*

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- *"Likelihood" may be judged by the assessor*
- *Where the scenarios is the one which occurred in the past, or the one considered as well known, "Likely" should be ticked*

Sample of Report for Ship Security Assessment

Rev. 1 (Aug. 2003)

3rd stage and 5th stage:

3rd stage & 5th stage: Identification of possible threat scenario to key shipboard operations and assess the likelihood of those occurrences

Possible threat scenarios	Relevant		Possible Consequences			Likelihood		3rd stage		5th stage
	Yes	No	Moderate 1	High 2	Extreme 3	Unlikely 1	Likely 2	Vulnerability score	Measures for Mitigation	New vulnerability score
1. Damage to, or destruction of, the ship (Bombing, arson, sabotage, vandalism)										
1.1 Conceal explosives onboard, initiate with timer or remote device	☒	☐	☐	☐	☒	3 ☐ 5 ☒	3 ☒ 5 ☐	6	1*/2*/3* 4*/5*/6*	3
1.2 Bring explosives onboard, suicidal/high risk action	☒	☐	☐	☐	☒	3 ☐ 5 ☒	3 ☒ 5 ☐	6	1*/2*/3* 4*/5*/6*	3
1.3 Place explosives in cargo, initiate with timer or remote device	☒	☐	☐	☐	☒	3 ☐ 5 ☐	3 ☐ 5 ☐	3	1*/2*/3* 4*/5*/6*	N/A
1.4 Attach explosives to hull, initiate with timer or remote device	☒	☐	☐	☐	☒	3 ☐ 5 ☒	3 ☒ 5 ☐	6	1*/2*/3* 4*/5*/6*	3
1.5 Open bow, side or stern ports, cargo hatch to sink or capsize	☐	☒	☐	☐	☐	3 ☐ 5 ☐	3 ☐ 5 ☐		1*/2*/3* 4*/5*/6*	
2. Tampering with cargo, essential ship equipment or systems or ship's store										
2.1 Contaminate drinking water, food or air-conditioning	☒	☐	☐	☒	☐	3 ☐ 5 ☒	3 ☒ 5 ☐	4	1*/2*/3* 4*/5*/6*	2
2.2 Contaminate cargo	☒	☐	☒	☐	☐	3 ☐ 5 ☐	3 ☒ 5 ☐	2	1*/2*/3* 4*/5*/6*	N/A
3. Unauthorized access or use including presence of stowaways										
3.1 Stowaways sneaking onboard, concealment in cargo/service or storage spaces (including containers)	☒	☐	☐	☒	☐	3 ☐ 5 ☒	3 ☒ 5 ☐	4	1*/2*/3* 4*/5*/6*	2
3.2 Boarding ship at port or during voyage as "passenger" or "crew"	☒	☐	☐	☒	☐	3 ☐ 5 ☐	3 ☒ 5 ☐	4	1*/2*/3* 4*/5*/6*	2
3.3 Boarding ship at port or during voyage as "pilot", "supplier", "surveyor", fake castaway	☒	☐	☐	☐	☒	3 ☐ 5 ☒	3 ☒ 5 ☐	6	1*/2*/3* 4*/5*/6*	3
4. Smuggling weapon or equipment, including weapons of mass destruction										
4.1 Conceal weapons/equipment in cargo/service or storage spaces (including containers)	☒	☐	☐	☐	☒	3 ☐ 5 ☐	3 ☒ 5 ☐	6	1*/2*/3* 4*/5*/6*	3

1Note: Possible consequences × Likelihood = Vulnerability Score
2Note: After verifying the effectiveness of the measures for mitigation at the On-scene survey, new vulnerability score to be re-evaluated as 5th stage

3Note: A measure must be established for the cases where vulnerability score is 4 and above (* to be deleted as appropriate)
1: Access Control   2: Restricted Area   3: Cargo Handling
4: Ship's Store Delivery   5: Unaccompanied Baggage Handling   6: Security Monitoring

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Page 9/ 3rd Stage (5/5-1)

• *Multiply the figure of "Possible Consequence" by the one of "Likelihood"*

• *such "Vulnerability Score" is to be considered as an index for taking countermeasures.*

Page 9/ 3rd Stage (5/5-2)

- *Measure must be established for the cases where the vulnerability score is 4 and above*

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• *Conduct On-scene Security Survey and establish the security measures.*

• *List up the items for levels 1 to 3 as to comply with ISPS Code B/9.8 .*

- *Any "Observation" is to be stated*
- *Assessor is to consider whether the ship can perform the requirements for A/7.1 as well as A/7.2 to A/7.4 using the existing measures*

Page 11/ 4th Stage (3/3)

• *Any weakness or vulnerability are identified, countermeasures for those should be considered and specified*

• *Based on results of 3rd and 4th stages, re-consider "Likelihood" as for stage 5 for the items which Vulnerability score were identified as 4 and above at the 3rd stage*

• *Only when the likelihood is changed as "Unlikely" from "Likely", new Vulnerability score is to be less than 4*

...nd operations and assess the likelihood of those occurrences

Consequences		Likelihood		3rd stage		5th stage
High 2	Extreme 3	Unlikely 1	Likely 2	Vulnerability score[1]	Measures for Mitigation[2]	New vulnerability score[3]
☐	☒	3rd ☐ / 5th ☒	3rd ☒ / 5th ☐	6	1*/2*/3*/ 4*/5*/6*	3
☐	☒	3rd ☐ / 5th ☒	3rd ☒ / 5th ☐	6	1*/2*/3*/ 4*/5*/6*	3
☐	☒	3rd ☒ / 5th ☐	3rd ☐ / 5th ☐	3	~~1*/2*/3*/ 4*/5*/6*~~	N/A
☐	☒	3rd ☐ / 5th ☒	3rd ☒ / 5th ☐	6	1*/2*/3*/ 4*/5*/6*	3
☐	☐	3rd ☐ / 5th ☐	3rd ☐ / 5th ☐		~~1*/2*/3*/ 4*/5*/6*~~	

Thank you for your attention

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