A. **Purpose.** This work instruction sets forth guidance for assessing the effectiveness of a company’s Safety Management Systems (SMS) on U.S. flag vessels through the following processes:

- Evaluation of materiel deficiencies for potential SMS process failures;
- Evaluation of SMS documentation (certificates, logs, maintenance records, etc);
- Compliance options following objective evidence of an SMS failure; and
- Coast Guard oversight of SMS activities performed by Recognized Organizations (RO) and Third Party Organizations (TPO).

B. **Action.** Marine Inspectors and Investigating Officers that complete vessel inspections or casualty investigations on U.S. flag vessels subject to the International Safety Management (ISM) Code as implemented by Title 33 Code of Federal Regulations (CFR) Part 96, including those vessels which comply on a voluntary basis (e.g. Military Sealift Command) should adhere to the guidance herein.
For the purposes of this work instruction, a SMS, as defined under the ISM Code, is synonymous with a Towing Safety Management System (TSMS) as required under 46 CFR Part 138.¹

C. **Background.** The International Safety Management (ISM) Code requires that companies and their vessels establish an SMS to ensure safety at sea, prevention of human injury or loss of life, and avoidance of damage to the environment. Domestically, the Coast Guard implemented the ISM Code by legislation with the adoption of 46 U.S.C. § 3201, et seq. and through regulations promulgated in Title 33 Code of Federal Regulations (CFR) Subpart 96. In addition, the Coast Guard has integrated SMSs into the regulatory and policy framework that guide multiple vessel inspection programs. Compliance with the ISM Code is required for all vessels enrolled in the Alternate Compliance Program (ACP), regardless of whether a vessel engages in an international voyage.

D. **Discussion.** While the Coast Guard has authority to perform SMS audits and issue certificates, as a matter of policy, these functions are performed exclusively by Recognized Organizations (ROs) authorized by Commandant (see 33 CFR 96.320(c)(3)). These ROs must meet specific requirements as specified in 46 CFR Part 8 and 33 CFR Part 96, Subpart D. Similarly, for towing vessels subject to a TSMS, a TPO issues a TSMS Certificate, conducts audits and surveys, and must meet specific requirements in 46 CFR Part 139. OCMIs do not normally perform RO, company, or vessel audits. However, OCMIs play a critical role in verifying the effectiveness of an SMS through routine inspection, examination, and investigation activities.

In its capacity as the Flag Administration under IMO instruments, the Coast Guard is ultimately responsible to guarantee the effectiveness of all delegated functions performed on its behalf, including those SMS verification functions delegated to ROs. The Coast Guard’s oversight of SMSs occurs continually as part of routine vessel activities including flag state inspections, examinations, and investigations. In short, an examination or inspection of a vessel for any purpose is an opportunity to evaluate the effectiveness of the SMS. Although SMS oversight may not be the primary purpose of an examination, marine inspectors (MIs) should remain cognizant of the important role that an SMS has in preventing or mitigating deficiencies and casualties, and in implementing key changes as a result of lessons learned from the same.

E. **General Procedure for Evaluating Potential Non-Conformities and Corrective Action Options.**

1. **INITIATING FACTOR(s)** may include technical, operational, documentation-related deficiencies, and marine casualties². Deficiencies discovered during the course of an inspection or examination and causal factors related to marine casualties should be scrutinized to determine whether the SMS reasonably should have prevented or otherwise managed them. A key indicator of a functioning SMS is that non-conformities are identified, reported, managed, analyzed, and corrected in a timely manner and in accordance with documented procedures.

   *Example:* A MI discovers that a lifeboat engine is inoperable during the course of an annual exam on a U.S. flag container ship. The MI begins to assess the nature of the deficiency (this scenario continues to develop throughout this instruction).

¹ SMS and RO will be herein synonymous with TSMS and TPO, respectively, unless specifically used otherwise.
² See Enclosure (1) for examples of technical, operational and documentation-related deficiencies.
2. **CLEAR GROUNDS** means evidence that the ship, its equipment, or its crew does not substantially conform to the requirements of the relevant conventions; or that the master or crew members are not familiar with essential shipboard procedures relating to the safety of the ship or the prevention of pollution. Evidence of troublesome or problematic equipment, operations, materiel deficiencies, or the appearance of the crewmembers’ inability to operate equipment correctly, is sufficient evidence to justify an expanded exam. While in this decision making phase, the MI must weigh the severity of the deficiency against the general impression of the vessel. The MI should be able to distinguish between deficiencies that result from normal operations (e.g., wear and tear, weather, operational environment) and those deficiencies that exist due to systemic failure of the owner or operator to implement an SMS. Significant materiel deficiencies, serious lack of maintenance, or the crew’s failure to follow safety procedures are key indicators the SMS may not be effectively implemented.

a. Examples of conditions that result in clear grounds for an expanded exam include, but are not limited to:

1) **Substandard materiel condition.** Generally, a materiel condition may be regarded as substandard if the hull, machinery, equipment or operational safety, is substantially below the standards required by the applicable regulations. Examples include, the below, either as a whole or individually:
   - The absence of equipment or arrangement required by regulations or rules of the particular inspection standard (e.g. for ACP, the international conventions, ACS rules and U.S. supplement);
   - Inoperability of required equipment;
   - Non-compliance of an arrangement with the relevant regulation or inspection standard; and/or
   - Substantial deterioration of the ship or its equipment.

2) Improperly endorsed or expired statutory certificates;

3) Lack of SMS documentation;

4) Crewmembers with insufficient knowledge of their required duties under the SMS;\(^3\)

5) Serious, longstanding materiel deficiencies or systemic lack of preventative maintenance of critical equipment/systems as identified by the SMS; and/or preventative maintenance tracking system (NS5, AMOS, TM Master, Maximo, etc.).

b. In the case that a deficiency is disclosed at the outset on an inspection or exam, the MI should confirm that the condition was reported to the company’s shore-based organization in accordance with the SMS and verify that suitable corrective actions, including adequate mitigation measures, are accounted for. In the case of serious deficiencies, verify that RO and Port State Control authorities, if applicable, were notified. Satisfactory documentation may be accepted as objective evidence of a functioning SMS even if materiel deficiencies are present.\(^4\) However, the absence of documentation, an insufficient corrective action plan, or failure to disclose issues may be indicative of an underlying condition affecting the implementation of the SMS and the MI should proceed with an expanded exam.

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\(^3\) Additional information relating to “clear grounds” for potential manning violations is contained in MSM Vol. III, B1.F.

\(^4\) Issuing a vessel requirement (deficiency), COTP Order, or LOD may be appropriate for a technical, operational and/or documentation related deficiency even if a SMS related deficiency is not warranted.
c. If the MI has *clear grounds* for carrying out an expanded exam, the Master should be immediately informed of these grounds. Additionally, the MI should notify the OCMI.

*Example (cont.): The vessel has a Cargo Ship Safety Equipment Certificate (SLE) that appears to be valid and the Form E lists that a lifeboat is required. There is no documentation from the Coast Guard on board permitting the vessel to sail with an inoperative lifeboat (e.g. CG-835V, SOLAS Exemption, or other correspondence).*

3. **EXPANDED EXAM** is a more detailed inspection performed after clear grounds have been established. While the expanded exam may broaden the scope and depth of items the MI may inspect, it may also include a review of maintenance schedules and records, training records and certifications, plans and procedures, and interviews that may be required by the SMS. It is important to note that an expanded exam is **NOT** an audit. It is an opportunity to confirm the elements of the company SMS as it relates to the deficiency, and that the Master and crew have a basic understanding of how the deficiencies relate to the SMS. Under the Coast Guard’s authority as a Flag State, MI’s may request to review any internal audit records, corrective action reports, or master’s review documentation on U.S. vessels. This contrasts with the Coast Guard’s authority as a Port State in which a Port State Control Officer (PSCO) may only verify that internal audits were completed, but may not examine the records and non-conformity reports.

Technical and/or operational-related deficiencies found during the expanded exam should be, individually or collectively considered by the MI, using their professional judgement, to indicate that either:

- They do not show a failure, or lack of effectiveness, of the implementation of the ISM Code; or
- There is a failure, or lack of effectiveness, of the implementation of the ISM Code; or
- There is a serious failure, or lack of effectiveness, of the implementation of the ISM Code

*Example (cont.): The MI conducts a more detailed inspection and examines the related maintenance records for the rescue boat. The vessel’s captain states that the 3/M is responsible for checking the lifesaving appliances so the MI decides to interview the 3/M and asks the following questions:*  

- **What is the Company’s procedure for testing lifeboats?**
- **Was the inoperative lifeboat engine previously identified and what corrective actions are being undertaken?**
- **Were SMS procedures followed for reporting and documenting this non-conformity?**
- **When was the last operational test and inspection carried out?** Documentation?
- **How often is an operational test and inspection required?** Documentation?
- **Who carried out the last operational test and inspection?** Documentation
- **How often is maintenance required?** SMS Procedure?
- **Does the SMS address lifesaving equipment?**
- **When was the last maintenance carried out?** Documentation?
- **Who conducted the maintenance?** Documentation?
- **Are any qualifications or certifications required related to the maintenance?**

4. **OBJECTIVE EVIDENCE** means quantitative or qualitative information, such as records or statements of fact, which is based on observation, measurement, or test that can be verified. A
deficiency should not be labeled as a “non-conformity” until an external SMS verification has been completed and the RO verifies the item is not in accordance with the applicable requirement.

Example (cont.): Following the interview with the 3/M, the MI notes that the lifeboat engine was first discovered to be inoperable during last week’s safety checks. The 3/M stated that he reported the situation to the C/M verbally but was too busy with cargo operations and did not fill out the non-conformity report as required by the company’s SMS. Since the company uses this system to centrally track vessel conditions, order necessary parts, and arrange for repair technicians, the inoperable engine was not repaired. At this point, the MI has objective evidence of a non-conformity with the SMS.

5. COMPLIANCE OPTIONS

a. The compliance options listed below are available to the OCMI to evaluate deficiencies indicative of SMS failures and drive the root cause analysis and corrective action process solely within the context of the ISM framework. Nothing limits the OCMI from using additional tools to compel compliance including: increased frequency of inspection, appropriate enforcement options, and revocation of certificates. The following compliance actions may be required by the OCMI via a CG-835V:

1) **INTERNAL SMS AUDIT.** For technical or operational deficiencies that individually or collectively do not warrant the detention of the ship but indicate a failure, or lack of effectiveness, of the SMS, an “SMS Related” deficiency should be recorded on the CG-835V requiring an internal safety audit and corrective action within three months. However, it is not necessary to require an internal audit where the deficiency has been referred to the RO that issued the vessel’s SMC in accordance with IACS Procedural Requirement 17 (IACS PR-17).

2) **EXTERNAL SMC AUDIT.** If objective evidence indicates that the technical or operational-related deficiencies indicate a serious failure, or lack of effectiveness, of the implementation of the SMS, the vessel should be placed under Flag State Detention. Control actions “30 –Ship Detained” and an “SMS Related” deficiency should be recorded on the CG-835V requiring that an SMS external audit by carried out by the RO prior to this ship being released from her detention.

   **Note:** The scope of the verification conducted by the RO may be limited if the potential non-conformities are limited to a subset of the company’s SMS. If potential non-conformities exist within multiple areas of the SMS, the scope of the verification shall be expanded.

   **Note:** Where a vessel has been detained and/or an external SMC Audit has been required by the Coast Guard, a notification should be sent to CG-CVC@uscg.mil.

3) **EXTERNAL DOC AUDIT.** If objective evidence indicates that the technical or operational-related deficiencies indicate a serious failure, or lack of effectiveness, of the implementation of the SMS at the company level, the OCMI should recommend to CG-CVC that an additional SMS external audit of the company’s shore-based organization (i.e., DOC audit) be conducted. The OCMI should not recommend an additional DOC audit until at least one external SMC audit has been carried out where the recorded non-conformities indicate that the SMS failures exist at the Company level. A template for requesting an additional SMS (DOC) verification of the company is in enclosure (2). CG-CVC holds sole authority to revoke DOCs.

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5 See the Procedures for Port State Control, 2017; IMO Resolution A.1119(30), as amended.
4) **46 CFR SUBCHAPTER M (TSMS OPTION – NON-ISM).** The OCMI should use the same procedures outlined above as it relates to internal and external vessel audits, understanding that TSMS vessels do not have an SMC. In this sense, the vessel’s COI is equivalent to an SMC because its issuance is predicated upon effective implementation of a TSMS. At the Company level, the TSMS certificate is equivalent to a DOC issued under the ISM Code. The process outlined above for external DOC audits should be used by the OCMI to recommend an external TSMS certificate audit of the Company. However, the recommendation memo should be directed to the Towing Vessel National Center of Expertise (TVNCOE) with a copy provided to CG-CVC. The TVNCOE holds exclusive authority to revoke a TSMS Certificate.

b. If major non-conformities are discovered during the course of an SMC audit, the SMC should be withdrawn by the OCMI. Once immediate corrective action has been taken and the major non-conformities have been downgraded, a short-term SMC⁶ should be issued for a period of three months. After three months has elapsed, an additional external audit shall be completed to verify the effectiveness of corrective actions. If satisfactory, a full-term SMC should be reinstated with an expiration date corresponding to the expiration date of the original certificate⁷.

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⁶ Short-term certificates are not “Interim Certificates.” Rather, they are generally used for purpose of initiating additional verifications at shortened intervals in order to check the effectiveness of corrective actions following non-conformities See MSM Volume II, Section E.3.B.9 for additional information regarding short-term certificates.

⁷ See *Procedures Concerning Observed ISM Code Major Non-Conformities*, MSC/Circ.1059-MEPC/Circ.401
Examples of Technical, Operational, Documentation and Other Deficiencies

<table>
<thead>
<tr>
<th>Category</th>
<th>Examples</th>
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| Technical Deficiencies | • Combination of deficiencies, that together indicates that the maintenance system is not effectively implemented.  
• Poor condition of structure, hull, main deck, closing appliances, railings, ladders.  
• Defective/missing fire-fighting and live saving appliances, oil pollution prevention equipment.  
• Leaks and oil in engineering spaces, pump-rooms etc.  
• Hazardous electrical conditions.  |
| Operational Deficiencies | • Accidents and hazardous occurrences not reported to the company.  
• Crew not able to satisfactorily conduct practical demonstrations of shipboard operations, such as starting the fire pump, emergency generator, lifeboat engine, etc.  
• Crew not able to communicate effectively in the execution of their duties.  
• Inability of crew to perform satisfactorily mandated drills such as fire drills, LSA drills, pollution drills, etc.  |
| Documentation Deficiencies | • Expired statutory certificates or certificates not endorsed as required.  
• Overdue surveys, overdue audits or overdue deficiencies/findings.  
• Emergency response plans and relevant manuals not available or inaccurate.  
• Entries for relevant drills in Log Book not completed in accordance with requirements.  
• Incorrect or missing entries on the Oil Record Book  
• Fire/Emergency Plan not up to date.  |
| NOTE: Minor typing errors on statutory certificates should be recorded as a deficiency with the certificates and not an ISM-related deficiency. For certificates completed by an ACS, depending on the severity of the errors, the OCMI may consider forwarding a quality case as discussed in paragraph 5.d.  |
| Other Deficiencies | • Crew not complying with minimum safe manning  
• Masters, Officers, Persons in Charge and crew not certificates as required.  
• Serious deficiencies in respect to housekeeping and maintenance of galley, crew accommodation, and provision stores.  |
MEMORANDUM

From: [F.M. Last, RANK] 1
CG [Unit]

Reply to
Attn of: [RANK Last]
[Phone]

To: CG-CVC

Thru: (1) CGD [Number] (dp)

Subj: REQUEST FOR [COMPANY NAME-IMO#] ADDITIONAL SMS VERIFICATION

Ref: (a) MISLE Activity #[#####]

1. On [MONTH DD, 20YY], Marine Inspectors from my office conducted a [INSPECTION TYPE] on the [VESSEL NAME] [(O.N. or IMO #)] as documented in reference (a). During the course of the attendance, objective evidence was discovered indicating potential failures and/or a lack of effective implementation of the Company’s safety management system (SMS). Following an external verification of the vessel (SMC verification), which [was/was not2] attended by a Coast Guard observer, [##] non-conformities and/or [##] observations were recorded indicating potential SMS failures within the Company’s shore-based organization.

2. The external verification of the vessel (SMC verification) was completed on [MONTH DD, YYYY] and the audit report is enclosed.

3. It is recommended that an additional verification of the subject Company’s shore-based organization (DOC verification) be conducted by the Recognized Organization.

Enclosure3: (1) [ACS/RO/TPO NAME] Report #[#####] dated [MONTH DD, 20YY]

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1 Sector Commander or Commanding Officer
2 Additional enclosures may be added as necessary to include photos, additional survey reports, copy of 835V, etc.