

WASHINGTON STATE **Department of Ecology**

Prevention Section

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Cargo and Passenger Vessel BOARDING CHECKLIST						
IMO NO:		VESSEL NAME:			DATE/TIME:	
LOCATION:		INSPECTOR NAM	E:			
Copies of:	Ship Pa	articulars Y / N	SMC Y / N	Minin	num Manning Y / N	
3.1: VESSEL CREWIN Ref: SOLAS Ch. V and V, Re	_	olution A.1047 (27); ISM Code	e, Part 6.2; 46 CFR 15.415			
Exceed Standard		officers onboard. acilities and hiring measure	es to attract/retain			
Accepted Standard	vessels' flag	ewed in accordance with the grant of the grant of the grant of the property and the propert	ould be certified in			
Below Standard (risk indicator)	Example: Crewing does not meet IMO Principles of Safe Manning (evidenced by itinerary or by interviewing captain).					
3.2.1: COMMUNICAT		sh Proficiency -II/1 & A-III/1 ; 33 CFR 26.07; 3	3 CFR 161 12(c)			
Exceed Standard	Example: • Crew prof	icient in English. used on the bridge when t				
Accepted Standard	persons ash	who are required to comm nore, and other vessels, are n the English language to a	e sufficiently			
Below Standard (risk indicator)	 Example: Officers not proficient enough in English to perform duties. No procedures to determine English proficiency. 					
3.2.2: COMMUNICATIONS: Common Language						
Ref: SOLAS Ch. V, Reg. 14.3	S; ISM Code Part Example:	t 6.6 & 6.7		T		
Exceed Standard	 Officers are information 	nd crew easily communicat on. placards are in both comm		SMS Language: Common Langua	age:	
Accepted Standard Below Standard	A common designated manuals, in national creatinguage un Example: Co	spoken and written working on board vessels with mule structions, and placards or ews are printed in the design derstood by all crewmem rew has language difficultion thereof with the operating	ti-national crews. All n vessels with multi- gnated common bers. es when communicating			
(risk indicator)		or the operating	,			

3.3.1: FITNESS: Wor	k Hours/Estique	
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ker: STCW Code A-VIII/1	; 46 CFR 15.710 & 15.1111 (U.S. only) Example:	
Exceed Standard	 Short contracts offered (4 months senior officer, 6 months junior officers, less than 9 months ratings). Extra officers onboard. Company has written policies and procedures to allow master/CE to schedule operations to ensure crew stays within work/rest hour requirements. 	
Accepted Standard	Records reflect actual hours worked or rested and are within STCW requirements. (Crew manages hours with watch changes during pilotage as needed.)	
Below Standard (risk indicator)	 Example: Officers fatigued. Work/rest hours incomplete or not posted. Hours logged monthly rather than daily. 	
3.4.1: TRAINING: Tr	aining Program	
	N-III/1; ISM Code Part 6.3, 6.4, & 6.5	
Exceed Standard	Example: Promotion from within dedicated crew pool. Mentoring program in place. Training includes performance reviews with benchmarks for additional training.	Training program should include shipboard management training consistent with the International Safety Management (ISM) code and STCW 2010.
Accepted Standard	Comprehensive training program includes Familiarization, Refresher and Job-Specific training.	
Below Standard (risk indicator)	 Example: SMS does not track crew training and certificates. Company relies only on manning agency for crew training. Onboard training is just required drills and safety meetings. 	
3.4.2: TRAINING: Fa	miliarization	
Ref: STCW A-I/14 and A-I		
Exceed Standard	 Example: Officer turn over notes emailed to the relief/company prior to turn over. Senior relief personnel overlap time onboard. Familiarization checklists are logical, easy to use, and include interactive (free text) elements. If alternative fuels are used, training includes the specific hazards of that fuel. 	Period of handover overlap for senior officers:
Accepted Standard	Familiarization includes all STCW requirements (duties and responsibilities during all normal and emergency situations, and vessel arrangement familiarization, including escape routes from work and sleeping spaces) and operator's SMS requirements in a language understood by crew member.	
Below Standard (risk indicator)	 Example: SMS does not designate a crewmember responsible for familiarization training. Insufficient time allotted for training. 	

3.4.3: TRAINING: D	rille	
	rilis .9 & Reg. 30 (p/v only); ISM Code, Part 8.2 & 8.3; 46 CFR 199.180(c) (U.S. o	nlv)
Ket: SOLAS Ch. III, Reg. 1	Example: • Work hours and fatigue considered when scheduling drills	Refer to WA AIS recommended drills
Exceed Standard	 and training. Drills combined when appropriate to reduce paperwork and manage crew workloads. 	
	 Drills scheduled at different times of the day. Drills are realistic and include aspects of past accident reports. 	
Accepted Standard	Drills meet SOLAS, flag state and ISM requirements. Drills evaluated and reviewed by all crew at conclusion of the drill.	
Below Standard (risk indicator)	 Example: No drill records or drill records show drill accomplished in unrealistic timeframe. Drill matrix confusing or lacking specificity. 	
	Unrealistic drill scenarios.	
4.1: SAFETY PROGR		
Ref: ISM Code, Part 3.2,	5.1, 6.4, & 6.5	
	Example:	
	Accident prevention and job risk analysis training conducted. Distance being a second conducted and a second conducted.	
	 Risk analysis program includes instruction, training, and forms. 	
Exceed Standard	Fleetwide dissemination of lessons learned.	
	• 'Toolbox' meeting before current and upcoming jobs.	
	• If alternative fuels are used, specific safety measures, key	
	risk factors, and exposure first aid of each fuel is discussed. Has safety program with monthly meetings and entire crew	
Accepted Standard	represented.	
Below Standard (risk indicator)	Example: Safety meetings are informal, have no follow up on identified issues, or don't involve the entire crew.	
4.4: POLLUTION PRE	EVENTION eg. 17; MEPC.244(66); 33 CFR 151	
Net. WAIT OF ATTICK I, I		
	Example: • Receipts show all waste oil and solid waste materials sent	Oil Record Book: Sat / Unsat
	ashore.	Garbage Log: Sat / Unsat
Exceed Standard	• ISO 14001.	
	Incinerator use is well documented with spare equipment on	
	hand. Complete waste oil handling, garbage management, VGP	
Accepted Standard	program in place and fully implemented with regular training.	
	Example:	
Below Standard	 Pollution prevention program poorly organized (lack of ORB/garbage receipts). 	
(risk indicator)	Program incomplete or not followed (Leaks, pooled oil,	
	evidence of poor maintenance or housekeeping).	
4.8.1: CONTINGEN	CY PLAN FIELD DOCUMENT - Vessel Received Field Docum	ent
REF: WAC 173-182-240		
Exceed Standard	 Example: Field Document is posted in several locations and deck officers are trained in its proper use. Field document in NTVRP, voyage plan, or OTP. 	Field Doc. onboard Y / N
Accepted Standard	Field Document understood by master and posted in a conspicuous location.	
	Example:	
Below Standard	Field Document not onboard.	
(risk indicator)	Master unaware of Field Document.	

5.1.1: BRIDGE OPER	ATING PROCEDURES/EQUIPMENT - Equipment/Organizat	on
Ref: 33 CFR 164.35 – 164.	43; SOLAS Ch. V, Reg. 19	
	Example:	
Exceed Standard	• 2 full ECDIS.	
	Additional gyro.	
	Certified integrated bridge system.	
	Equipment appears well maintained. Meets	
Accounts of Ctourdoud	U.S./International standards. Clearly written Captain's	
Accepted Standard	standing orders and night orders.	
	Example:	
- 1 - 1 - 1	Required equipment not functioning.	
Below Standard	Captain's standing orders unclear.	
(risk indicator)		
	Bridge appears messy, dirty, or unkempt.	
	ATING PROCEDURES/EQUIPMENT - Charts/Publications	
Ref: SOLAS Ch. V, Reg. 21	.1; 33 CFR 164.33; 46 CFR 97.05-5 (U.S. only)	
	Example:	
Exceed Standard	Company makes chart updates easier for vessel (Automatic	
LACCCU Stanuaru	ECDIS updates).	
	Company provides access to charts beyond planned route.	
	Charts and publications corrected, up-to-date and records	
Accepted Standard	maintained.	
Accepted Standard	(If Engine Power Limitation is in use, there are two sets of	
	maneuvering characteristics posted.)	
	Example:	
Below Standard	• Charts or publications for voyage missing or not up to date.	
(risk indicator)	• If publications kept on computers: inability to access charts	
	or pubs in event of computer failure.	
5.1.4: BRIDGE OPER	ATING PROCEDURES/EQUIPMENT - Voyage Planning	
Ref: IMO Res A.893(21); S	OLAS Ch. V, Reg. 34	
	Example:	
	 Voyage plan includes risk assessments, detailed information 	
Exceed Standard	on waypoints, or procedures for LOP or LOS.	
	 Planned route posted at ECDIS, notes for next watch include 	
	the risks noted on the voyage plan.	
	Berth to Berth Voyage plan meets all listed elements of IMO	
Accepted Standard	guidelines.	
	Example:	
	•	
Below Standard	 Voyage plan appears to be auto filled with same information for each waypoint description. 	
(risk indicator)		
	Sections of plan are not filled out.Old plan used without updates.	
	RATING PROCEDURES/EQUIPMENT - Pilot Coordination	
Ref: IMO Res A.893(21); 3	33 CFR 164.11(k); RCW 88.16.155	
Exceed Standard	Example:	
	If power limitation is used, vessel specific procedures for	
	overriding the power limitation are discussed with pilots.	
	Master discusses all elements of pilot card and voyage plan	
Accepted Standard	with pilot. Only English used on bridge.	
	Example:	
	Master lacks English skills for meaningful exchange.	
Below Standard (risk	No pilot card used for exchange.	
indicator)	 No policy to notify Pilot of events on bridge, such as watch 	
	change.	

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CEDURES/EQUIPMENT – Bridge Resource Mai	nagement (BRM)
uses arrivals and departures as an opportunity to junior officers. by offers additional BRM training opportunities. by specifically address BRM use in different onditions.	
source Management (BRM) system consistent with 0 is in place and used.	
nciples are not incorporated in bridge procedures. appears complacent about BRM; no mention of inciples in standing orders. of passage review to discuss BRM strengths, sses or suggest improvements.	
ESS - Emergency Procedures	
endments); ISM Code, Part 8; 33 CFR 164.25(d); 46 CFR 9	7.13 (U.S. only)
ncy checklists tabbed and easy to locate and use. ares include emerging issues (hazmat/battery fires) ative fuels are used, spill response procedures specific guidelines for that fuel.	
Il and procedures for most common emergencies. kept on bridge or engine room as appropriate, ng drills, and readily accessible to watch officer.	
m Station Bill covering only Fire & Boat. ncy checklists missing or difficult to locate. ncy procedures lack corresponding checklist and ncy checklists difficult to use.	
YSTEM (PMS) e, par. 10; 33 CFR 96.250(j)	
dited by class. zed spare part inventory. des risk management strategy for planned and I maintenance, prioritization of work, spare parts, ation, and up-to-date certification. ve fuels used: includes audits of the leak detection system and emergency isolation valves. tracks planned and unplanned maintenance of leak detection equipment. planned/preventive maintenance system with ord keeping.	
quate or not followed. not identify and test critical equipment and systems. o investigate technical difficulties or determine grauses.	
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5.4: OIL TRANSFER F		
Kei: 33 CFK 155.720, 155.	730, 155.750, 156.150 and 151.25; WAC 317-40.	
Exceed Standard	 Example: WAC 317-40 incorporated in SMS. If alternative fuels are used, pre bunkering checklist includes testing of fuel detection and tank monitoring equipment. 	
Accepted Standard	SMS Oil Transfer Procedures/checklists exceed CFR minimum standards. (OTP includes internal transfers.)	
Below Standard (risk indicator)	Example: Oil Transfer Procedure does not meet CFR requirements.	
6.2 ENGINEERING W Ref: STCW A-III/1.4 and B	VATCH PRACTICES -VIII/2, Part 3-2. STCW 6/Circ 7	
	Example:	
Exceed Standard	 Toolbox meetings used to mentor junior engineers. Written procedures to ensure engine crew stays within workhour/rest hour standards. 	
Accepted Standard	Engine room Resource Management (ERM) system in place and fully utilized.	
Below Standard (risk indicator)	 Example: Engine room emergency procedures not written in crew's common language. Emergency checklists not in ECR or difficult to locate. Night orders not posted in the engine room. 	
6.3.4: ENGINEERING	OPERATING PROCEDURES - Fuel Oil Systems	
Ref: MARPOL Annex VI, R	eg. 14; MEPC.1/ Circ 878	
Exceed Standard	 Example: Automated fuel changeover system. Purifier room exceptionally clean. If alternative fuels are used, vessel has CCTV monitoring for the machinery space and bunker monitoring station. 	
Accepted Standard	Backup pump and fuel system inspected or tested ready for immediate use no more than 12 hours before transiting WA waters. (Vessel has records of lube oil system maintenance and, if engine power limitation is used, an onboard management manual is kept in the ECR.)	
Below Standard (risk indicator)	Example: • Purifier room oily/unclean. • Fuel oil system is not on pre-arrival/departure checklist. • Fuel oil system not tested/inspected prior to WA transit.	
6.3.7: ENGINEERING	OPERATING PROCEDURES - Cooling Water (CW) System	
Ref: SOLAS Ch. II-1, Reg. 2		
Exceed Standard	Example: Coolers checked prior to departure and debris (trash/jellyfish/seaweed) cleared if needed.	
Accepted Standard	Cooling water primary and back-up circulating systems, including pumps, lines, valves, and heat exchangers and controls tested or inspected to verify they are operational no more than 12 hours prior to transiting state waters. (records of maintenance for CW system)	
Below Standard (risk indicator)	 Example: Cooling water system not included in pre arrival/departure checklists. Evidence of leaks/drips (scaling along flanges for saltwater system; reddish tint near flanges for freshwater system). Patches or long-term use of a temporary repair in CW piping. Primary and back-up circulating and CW pumps not lined up or untested. 	

6.3.8: ENGINEERING	OPERATING PROCEDURES - Start/Control Air System
Ref: SOLAS Ch. II-1, Reg. 2	26
	Example:
	 Control and start air system components tracked
İ	electronically.
Exceed Standard	Automatic drain valves.
	 Annual gauge calibration date marked on component.
	 Additional (3rd) emergency start air compressor run off of
	emergency generator.
	Control and start air system tested or inspected to verify they
Accepted Standard	are operational no more than 12 hours prior to transiting
7.000ptou otaniau u	state waters.
	Example:
Below Standard	Start air system not on pre-arrival/departure checklist.
(risk indicator)	Control and Start air system not verified as fully functional
(for maneuvering.
6.1 MACHINERY AND	SPACES
	OLAS, Ch. III, regs. 20 and 36 ('96 amendments); ISM Code, par. 10.
., ., ., ., ., ., ., ., ., ., ., ., ., .	Example:
	Clean and well maintained.
	Compliance program in place (i.e. tagging overboard)
	valves or anonymous reporting).
Exceed Standard	If alternative fuels are used, piping for alternative fuel
	system is clearly labeled and enhanced ventilation is in
	place to respond to leaks (example: exhaust blowers with
	ability to increase flow rates)
	Condition appears to be commensurate with age and
Accepted Standard	service.
	Example:
Below Standard (risk	Equipment not functioning or in poor condition.
indicator)	• Excessive oil leaks.
	Poor housekeeping (oiled rags).

Option checklist items for use on Expanded Inspections (either individually or as whole)

		,
	hol and Drug Use/Policy (Optional – for use on expanded i	inspection)
Ref: RCW 90.56.540 (.06	BAC); 33 CFR 95.020 (.04 BAC); 46 USC 2302.	
Exceed Standard	 Example: Policy of no alcohol or illegal drug use onboard. Instructions for calibrating testing equipment are available if the equipment is kept onboard Onboard random testing. 	
Accepted Standard	Written alcohol policy per CFR or similar, or U.S. Policy posted on board.	
Below Standard (risk indicator)	Example:Evidence of alcohol or illegal drug use onboard.No policy posted onboard.	
	b-Specific Training (Optional – for use on expanded inspection of A-III/1 (OIC eng)	ction)
Exceed Standard	Example:Company has formal method to track crew training needs.Crew receives feedback and additional mentoring if needed.	
Accepted Standard	Comprehensive on-the-job specific training program.	
Below Standard (risk indicator)	Example: No job specific training program in place.	
-	NMENTAL MANAGEMENT SYSTEM (Optional – for use on 96.390. ISM Code, Guideline 6 – Resources and Personnel	expanded inspection)
	Example:	Date of last external audit:
Exceed Standard	Company has additional safety or environmental programs in place.	Date of last internal audit:
Accepted Standard	Officers have a role in improving SMS Functioning SMS program in place which includes training, awareness, documentation, and auditing	
Below Standard (risk indicator)	Example: Inadequate or incomplete record keeping.	
	OVERSIGHT (Optional – for use on expanded inspection) 3 CFR table 96.250(I) (U.S. only)	
	Example:	Date of last visit:
Exceed Standard	 Management makes unannounced inspections of vessel(s), including check-rides. Management ensures any inspections or trainings do not interfere with work hour/rest hour for crew. Company has formal guidance on reporting nonconformities, near-miss, accidents, and hazardous conditions. 	Inspected by:
Accepted Standard	Management visits once per quarter to review operations, inspect the vessel, and talk with senior officers.	
Below Standard (risk indicator)	Example: Rare/infrequent visits to vessel by management. SMS has no formal means for crew to report issues. No process to inform crew on audit results or corrective actions taken.	

A.C. DALLACT TASK	AND CARCO HOLD INCRECTION (CHRUEV IO)	
4.6: BALLAST TANK Ref: 46 CFR 91.40 (U.S. O	AND CARGO HOLD INSPECTION /SURVEY (Optional – for u	ise on expanded inspection)
Nei. 40 CFN 31.40 (U.S. UI	"	
	Example:	Last Inspection:
	Problem areas are photo documented and scheduled for	Inspected by:
Exceed Standard	repair or re-exam on a schedule less than one year.	Location:
exceed Standard	• Training for crew on corrosion, deformation, and fractures.	Location.
	Company provides safety equipment and equipment to	
	record findings (intrinsically safe camera, drone).	
	Ballast tanks and cargo holds are inspected at least	
	annually to detect potential structural failures, cracks, coating	
Associated Ctondord	integrity, and excessive corrosion. Company has written	
Accepted Standard	procedures for tank or hold inspections performed by crew	
	which includes risk assessment and enclosed space work	
	permitting.	
Below Standard (risk	Example: No plan for safety of crew or ship when performing	
indicator)	these inspections.	
· · · · · · · · · · · · · · · · · · ·	AUGING (Optional – for use on expanded inspection)	
	-3(D), (E) (U.S. Only); SOLAS Ch. XI, reg. 2.	
	Example: Ultrasonic gauging for vessels under 15 years of	Last Inspections
Exceed Standard	age.	Last Inspection:
	Ultrasonic gauging of hull & tanks performed every 3 years or	Inspected by:
Accepted Standard	less or IACS Enhanced Hull Survey program.	Location:
Accepted Standard	ress or mass armanesta man our rey programm	
51 0 1 1	Example: Ultrasonic gauging of hull and tanks not performed	
Below Standard	when required.	
(risk indicator)	<u> </u>	
5.1.3: BRIDGE OPER	ATING PROCEDURES/EQUIPMENT - Equipment Error Che	cks (Optional – for use on expanded inspection)
Ref: SOLAS Ch. V, reg. 19-	2 (steering gear); STCW A-II/1, A-II/2, and VIII/2 part 3-1; 33 CFR 164.25	
	Example: Equipment checked before approaching land, traffic	
Exceed Standard	lanes, pilot station, or other dangerous waters	
	Radars, compass (gyro and magnetic), and repeaters checked	
Accepted Standard	at least once per watch for errors.	
<u> </u>	·	
Below Standard	Example: Checks are not recorded or are incomplete.	
(risk indicator)		
5.1.7: BRIDGE OPER	ATING PROCEDURES/EQUIPMENT - Helmsman and Looke	out (Optional – for use on expanded inspection)
Ref: STCW A-VIII/2, part 3		,
	Example: Helmsman and lookout are included in the bridge	
Exceed Standard	team briefing and debriefing.	
	Lookouts are assigned no other duties and the helmsman	
Accepted Standard	does not serve as lookout.	
	Evample	
	Example:	
Below Standard	Failure to assign a lookout in restricted/ congested waters. Page long days not indicate when additional lookout about the congested waters.	
(risk indicator)	Deck log does not indicate when additional lookout should be assigned to bridge such as in restricted visibility.	
	be assigned to bridge, such as in restricted visibility.	
5.2.1: DECK PROCEE	OURES - Ground Tackle Readiness (Optional – for use on ex	kpanded inspection)
Ref: ISM, STCW, and 33 C		
	Example: Anchor brake and associated equipment is	
Exceed Standard	considered critical equipment in the PMS.	
	Anchors cleared and ready to drop before sea buoy, if safe to	
Accepted Standard		
Accepted Standard	do so.	
Rolow Standard	Example: No crew assigned to stand-by anchor, or crew is not	
Below Standard (risk indicator)	Example: No crew assigned to stand-by anchor, or crew is not on bow for stand-by anchor duty.	

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	DURES - Anchor Watch (Optional – for use on expanded in:	spection)
Ref: STCW A-VIII/2, par. 5	Example:	
	•	
Exceed Standard	Rating assigned to roam deck and report to OOW condition of vessel and anchor chain position	
	of vessel and anchor chain position.	
	HSC Anchoring SOC is readily available and adhered to.	
	A licensed deck officer is standing watch on the vessel's	
Accepted Standard	bridge and monitoring the vessel's position while anchored in	
	state waters.	
	Example:	
Below Standard	Bridge is left unattended for any period while anchored	
(risk indicator)	(such as during bathroom or coffee break).	
	Electronic equipment alarms not enabled.	
5.2.3: DECK PROCED	OURES - Safety Patrol (Optional – for use on expanded insp	pection)
Ref: STCW A-VIII/2, part 4	I, par. 90 (in port); SOLAS, Ch. II-2, reg. 40 (p/v only). (Verify by checking l	ogs, standing orders)
Freeze of Character 1	Example: Monitoring devices such as cameras and motion	
Exceed Standard	sensors are used in addition to rounds.	
	Safety patrol rounds of the vessel are conducted hourly while	
Accepted Standard	in port or at anchor and at least once per watch while	
•	underway	
Below Standard	Example: Safety patrol rounds not required on a regular	
(risk indicator)	schedule, are incomplete, or not recorded.	
•	DDEDADEDNIEGG F	
	PREPAREDNESS- Emergency Towing (Optional – for use or	expanded inspection)
Ref: SOLAS, Ch.II-1, reg. 3		
Exceed Standard	Example: Readily deployable emergency towing package.	
	Foregon to the state of the sta	
Accepted Standard	Emergency towing plan meets IMO Guidelines and drills are	
	conducted twice annually.	
Below Standard	Example: Emergency towing drills are not conducted twice	
(risk indicator)	annually or lack realism such as heavy weather or loss of	
<u> </u>	power.	
	CULATIONS & CARGO PLANNING (Optional – for use on exp	panded inspection)
Ref: SOLAS, Ch. VI, reg. 7	('96 amendments); 46CFR78.17-22, 97.11-12	
	Example:	
Exceed Standard	Stability known by all deck officers.	
Exceed Standard	Frequent updates of load/discharge operation.	
	Record (paper or electronic) of stress verifications.	
	Vessel Master and Chief Officers prepare, update, and	
Accepted Standard	monitor stability plans for all cargo loading and unloading	
	operations.	
	Example:	
Below Standard	Incomplete/inadequate pre-load plan prepared.	
(risk indicator)	Dangerous cargo manifest not readily available or not	Plan Elements: transverse stability, longitudinal hull stress,
	completed prior to loading or departure.	sheer forces, bending moments, and ballasting.
	OPERATING PROCEDURES - Engine Room (E/R) Crewing	(Optional – for use on expanded inspection)
Ref: STCW A-VIII/2, part 3		
	Example:	
Exceed Standard	Procedures in place to ensure engineering officers do not	
	exceed work hours during long maneuvering periods.	
	Emergency procedure checklists posted or easily found and	
	known by engineers.	
	Additional engineering officer onboard.	
	Engine Room and/or Control Room manned by two Engineers	
Accepted Standard	and one rating while in WA waters.	
Dalam Charadand	Example: ER unattended during maneuvering.	
Below Standard		
(risk indicator)		

6.3.3: ENGINEERING	G OPERATING PROCEDURES - Steering Gear Flat (Optional	– for use on expanded inspection)
Ref: SOLAS, Ch. V, reg. 19	9-2; 33 CFR 164.11(t) and 164.25	
Exceed Standard	Example: Video monitoring of flat from Engine Control Room (ECR) / bridge or hourly rounds made while at anchor or moored.	
Accepted Standard	Tests conducted per CFR and hourly rounds made while underway in WA waters. (Connections properly greased).	
Below Standard (risk indicator)	System malfunctioning or vessel failed to conduct CFR required testing (alarms, swing and operate pumps). Poor housekeeping. Evidence of leaks. Unsecured or excessive stored material. Emergency exit blocked.	
6.3.5: ENGINEERING Ref: SOLAS, Ch. II-1, reg.	G OPERATING PROCEDURES - Lube Oil Systems (Optional – 15	for use on expanded inspection)
Exceed Standard	Example: Records of lube oil analysis.	
Accepted Standard	Primary and back-up lube oil systems, including pumps, piping, valves, coolers, and switching mechanisms, are tested or inspected to verify they are operational no more than 12 hours prior to transiting Washington waters. (records of maintenance for lube oil system and purifier)	
Below Standard (risk indicator)	 Example: Back-up IUSube oil pump untested. Evidence of leaks/drips from lube oil system piping/flanges/couplings. Lube oil system not on pre arrival/departure checklists. 	
	G OPERATING PROCEDURES - Fuel and Lube Oil Strainers	
Ref: SOLAS, Ch. II-1, reg. Exceed Standard	Example: Strainers throughout machinery space are maintained and free of residual oil.	
Accepted Standard	Strainers cleaned within 12 hours prior to entry/departure. (records of maintenance for automatic self-cleaning strainers)	
Below Standard (risk indicator)	Example: Evidence of strainers unclean/clogged or not maintained. Residual oil or soaked pads in the strainer containment.	
6.3.1: ENGINEERIN Ref: STCW A-VIII/2, part	G OPERATING PROCEDURES – Electrical Systems	
Exceed Standard	Example: The following conducted annually: Thermographic survey of the electrical system. Automation testing (including float switches etc.). Inspection of junction boxes on motors. If alternative fuels are used (ammonia in particular) electrical system designed to meet spark-proof standards.	EDG on standby confirmed? Y/N
Accepted Standard	All generators tested and proven plus two main generators online for maneuvering.	
Below Standard (risk indicator)	 Example: No annual insulation testing of high voltage equipment (MEGGER testing). Vessel maneuvers on only one generator. No lock out tag out system. Generator inoperable. 	

7.1: DECK (Optional	7.1: DECK (Optional – for use on expanded inspection)			
Ref: SOLAS, Ch. I, reg. 11 a	and Ch. II-1, reg. 3-1 ('96 amendments), 46 CFR Subchapter B – U.S. flag			
Exceed Standard	Example: Excellent condition. All deck tank vents are labeled correctly for the tanks they are servicing. Deck containment well maintained.			
Accepted Standard	Deck areas are well maintained, and all oil, garbage and debris are cleaned up promptly.			
Below Standard (risk indicator)	Example: Serious deterioration of hull, piping, fittings and/or structural members. Leaks from hatch cover hydraulics. Deck containment heavily eroded.			
	TION (Optional – for use on expanded inspection) 46 CFR subpart 92.20 (U.S. only)			
Exceed Standard	Example: Excellent condition.			
Accepted Standard	Accommodation spaces are well maintained and in sanitary condition. Equipment should be maintained in compliance with international and U.S. requirements.			
Below Standard (risk indicator)	Example: Crew spaces not clean, equipment broken. ILO-147 violations. Insufficient food aboard.			