

MARITIME

DNV GL's PSC FOCUS 2020 – PSC Planner updated

Customer info: Detailed survey of PSC Top 18 items

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PSC focus 2020: Introduction of PSC TOP 18 items

PSC focus 2020:

- The detainable items from previous PSC inspections have been analysed and as a result the list of TOP 18 items has been created
- The ship and port specific checklists in the PSC Planner includes an additional part related to PSC Top 18 items for every vessel with DNV GL services

- The key for success to reduce PSC detentions:
 - Regular maintenance on board
 - with a more detailed focus of PSC Top 18 items (e.g. by using the PSC Planner checklist as unregular “quick checks”)

- Increase awareness of your shore staff and onboard crews with this presentation and ensure high quality and safety in shipping

Top 18 detainable deficiencies found in 8 main categories as defined by PSC regimes

**During
regular
maintenance
on board**

- Verify operational preparedness and compliance with international requirements
- and
- Judge if the management system needs improvement

The majority of PSC deficiencies were issued in

- 03xxx - Water/Weathertight condition
- 04xxx - Emergency systems
- 07xxx - Fire Safety
- 10xxx - Safety of Navigation
- 11xxx - Life Saving Appliances
- 13xxx - Propulsion main engine
- 14xxx - Environmental Protection

One or more deficiencies in the above categories may be seen as evidence of a failure of the Safety Management System on board and are likely to trigger a detainable deficiency towards ISM:

- 15xxx - ISM related deficiency

PSC Top 18 items in PSC Planner checklist – Water/ Weathertight condition

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
Water/ Weathertight condition	03108	Ventilators, air pipes, casings	<ul style="list-style-type: none"> Examine condition including watertight integrity, if applicable, of ventilators, air pipes and casings. 	Multiple ballast tanks air vent closing arrangements defective



PSC Top 18 items in PSC Planner checklist – Emergency systems

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
Emergency systems	04102	Emergency fire pump and its pipes	<ul style="list-style-type: none"> Examine fire water system incl. fire pumps, fire mains, hoses, hydrants, international shore connection and nozzles. 	Emergency fire pump unable to pressurize the fire mains
	04103	Emergency lighting, batteries and switches	<ul style="list-style-type: none"> Verify functioning of emergency lighting, batteries and switches. 	Lack of emergency light/or not marked in the locker with B.A. and over the launching instruction of liferafts/lifeboat.
	04114	Emergency source of power - Emergency generator	<ul style="list-style-type: none"> Examine with respect to general condition, fire hazard, personnel safety and function. Test function of emergency generator, emergency switchboards and battery chargers. 	Emergency generator not connecting automatically to the emergency switchboard



General condition



Repaired light foundation at nav. deck



New GMDSS batteries

PSC Top 18 items in PSC Planner checklist – Fire Safety I

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
Fire Safety	07105	Fire doors/ openings in fire resisting divisions	<ul style="list-style-type: none"> Examine and perform function testing of all manual and automatic fire doors. Fire doors shall not be blocked or kept permanently open. 	Fire protection self-closing door from escape trunk to accommodation after deck corridor found out of order.
	07106	Fire detection	<ul style="list-style-type: none"> Examine condition and perform function test 	The maximum distance between two smoke detectors in a deck accommodation space corridor more than 11 m (about 15 m).
	07109	Fixed fire extinguishing installation	<ul style="list-style-type: none"> Examine condition of fixed firefighting equipment in the machinery spaces. 	CO2 Fixed fire extinguishing system defective.



PSC Top 18 items in PSC Planner checklist – Fire Safety II

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
Fire Safety	07114	Means of control (opening, pumps) Machinery spaces	<ul style="list-style-type: none"> Test remote start of the main fire pumps. Test stopping of power ventilation from outside the spaces served. Test closing of main inlets and outlets. 	Quick close valve of no. 2 generator fuel oil pipe failed to be closed by remote control.
	07115	Fire-dampers	<ul style="list-style-type: none"> Examine all fire dampers. Verify adequateness of maintenance intervals. 	Fire funnel damper, unable to properly closed.
	07126	Oil accumulation in engine room	<ul style="list-style-type: none"> Examine that space is free of fire and explosion hazards e.g. oil spill, oily rags, buckets with oil, overfilled drip trays. 	Oli racks in bilge; general oily ER



PSC Top 18 items in PSC Planner checklist – Safety of Navigation

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
Safety of Navigation	10111 & 10112	Charts + Electronic charts (ECDIS)	<ul style="list-style-type: none"> Verify that nautical charts and nautical publications necessary for the intended voyage are available and have been updated Verify in working order including back-up arrangements 	Found charts expired or not updated. Same Deficiency as mentioned in inspection on 10.10.2016 and before.
	10114	Voyage Data Recorder (VDR/S-VDR)	<ul style="list-style-type: none"> Verify that the annual performance test report is available on board and not overdue. Verify that VDR is in good working condition 	The S-VDR of the vessel found malfunctioning. There was alarm about "Data lost" and "Logging Failed".



PSC Top 18 items in PSC Planner checklist –Life Saving Appliances

PSC Code category	PSC Code	DNV GL - PSC TOP 18 / Deficiency category	PSC Planner: Top detainable deficiencies (TOP 18) worldwide	PSC deficiency examples
Life Saving Appliances	11101	Lifeboats	<ul style="list-style-type: none"> Examine condition of structure and engine for each lifeboat 	The free-fall L/B engine failed to be started by the battery in use.
	11104	Rescue boats	<ul style="list-style-type: none"> Examine condition of structure and engine for each rescue boat 	The engine of rescue boat failed to start during testing.



PSC Top 18 items in PSC Planner checklist – Propulsion

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
Propulsion	13101	Propulsion main engine	<ul style="list-style-type: none"> • Verify that normal operation of the propulsion machinery can be sustained or restored even though one of the essential auxiliaries becomes inoperative. • Verify that means are provided so that the machinery can be brought into operation from the dead ship condition without external aid. • Examine and test function. • Test remote control system. 	Propulsion main engine M.E. has failure that limit and not allows works more than half ahead / astern (50%).



PSC Top 18 items in PSC Planner checklist – Environmental Protection

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
Environmental Protection	14104	Oil filtering equipment	<ul style="list-style-type: none"> Examine that automatic discharge stopping device and oil filtering equipment alarm are working 	15ppm OCM alarm unit for the OWS in engine room found malfunction.
	14402	Sewage treatment plan	<ul style="list-style-type: none"> Examine externally and verify satisfactory operation Verify that no change has been made nor any new equipment installed if that working which. 	The dosage pump for sewage treatment plant out of control.



PSC Top 18 items in PSC Planner checklist – ISM

PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
ISM	15150	Maintenance level and crew performance	<ul style="list-style-type: none"> • Verify implementation on ISM with focus on findings from previous PSC inspections and internal/ external audits • Check if procedures for essential shipboard operations and training of crew are available • Verify that crew is trained in the task assigned and drills are successfully carried out 	Several of the above deficiencies regarding ventilation of machinery are evidence of a serious lack of implementation of the ISM Code



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