#### DNV·GL

#### 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 where 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		Multiple ballast tanks air vent closing arrangements defective



25 March 2020

#### **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> <li>Examine fire water system incl. fire pumps, fire mains, hoses, hydrants, international shore connection and nozzles.</li> </ul>	Emergency fire pump unable to pressurize the fire mains
		Emergency lighting, batteries and switches	<ul> <li>Verify functioning of emergency lighting, batteries and switches.</li> </ul>	Lack of emergency light/or not marked in the locker with B.A. and over the launching instruction of liferafts/lifeboat.
		Emergency source of power - Emergency	<ul> <li>Examine with respect to general condition, fire hazard, personnel safety and function.</li> <li>Test function of emergency generator, emergency switchboards and battery chargers.</li> </ul>	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
	07105	Fire doors/ openings in fire resisting divisions	<ul> <li>Examine and perform function testing of all manual and automatic fire doors. Fire doors shall not be blocked or kept permanently open.</li> </ul>	Fire protection self-closing door from escape trunk to accommodation after deck corridor found out of order.
Fire Safety	07106	Fire detection	<ul> <li>Examine condition and perform function test</li> </ul>	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> <li>Examine condition of fixed firefighting equipment in the machinery spaces.</li> </ul>	CO2 Fixed fire extinguishing system defective.



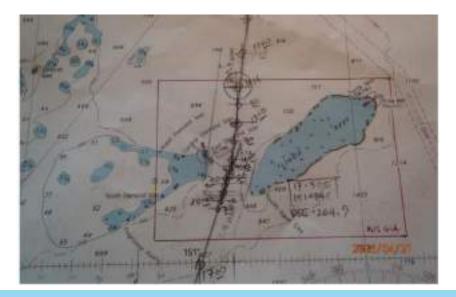
## **PSC Top 18 items in PSC Planner checklist – Fire Safety II**

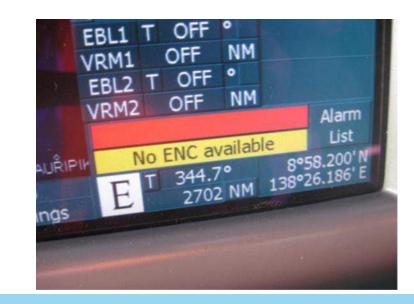
PSC Code category	PSC Code	PSC Code Text/ Defective item	DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
	07114	Means of control (opening, pumps) Machinery spaces	<ul> <li>Test remote start of the main fire pumps.</li> <li>Test stopping of power ventilation from outside the spaces served.</li> <li>Test closing of main inlets and outlets.</li> </ul>	Quick close valve of no. 2 generator fuel oil pipe failed to be closed by remote control.
Fire Safety	07115	Fire-dampers	• Examine all fire dampers. Verify adequateness of maintenance intervals.	Fire funnel damper, unable to properly closed.
	07126	Oil accumulation in engine room	<ul> <li>Examine that space is free of fire and explosion hazards e.g. oil spill, oily rags, buckets with oil, overfilled drip trays.</li> </ul>	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
	10111 & 10112	Charts + Electronic charts (ECDIS)	<ul> <li>Verify that nautical charts and nautical publications necessary for the intended voyage are available and have been updated</li> <li>Verify in working order including back-up arrangements</li> </ul>	Found charts expired or not updated. Same Deficiency as mentioned in inspection on 10.10.2016 and before.
Safety of Navigation	10114	Voyage Data Recorder (VDR/ S-VDR)	<ul> <li>Verify that the annual performance test report is available on board and not overdue.</li> <li>Verify that VDR is in good working condition</li> </ul>	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	11101	Lifeboats		The free-fall L/B engine failed to be started by the battery in use.
Appliances	11104	Rescue boats	• Examine condition of structure and engine for each rescue boat	The engine of rescue boat failed to start during testing.



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## **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> <li>Verify that means are provided so that the machinery can be brought into operation from the dead ship condition without external aid</li> </ul>	Propulsion main engine M.E. has failure that limit and not allows works more than half ahead / astern (50%).

• Test remote control system.





#### **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
Environ-	14104	Oil filtering equipment	<ul> <li>Examine that automatic discharge stopping device and oil filtering equipment alarm are working</li> </ul>	15ppm OCM alarm unit for the OWS in engine room found malfunction.
mental Protection	14402	Sewage treatment plan	<ul> <li>Examine externally and verify satisfactory operation</li> <li>Verify that no change has been made nor any new equipment installed if that working which.</li> </ul>	The dosage pump for sewage treatment plant out of control.





### **PSC Top 18 items in PSC Planner checklist – ISM**

PSC Co catego			DNV GL PSC Planner: TOP 18 checklist item text	PSC deficiency examples
ISM	1515	) Maintenance level and crew performance	<ul> <li>Check if procedures for essential shipboard operations and training of crew are available</li> </ul>	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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