



Watch Call

References

- Kongsberg K-Chief 700 Integrated Control System Product Description, 304844/B
- Kongsberg K-Chief 700 Operator Manual, 332618/B

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Content

- Watch Call system
- System design and functionality
- Watch Call HMI on the OS
- Watch Call and Class Societies
- Panel layout with buttons, indicators and LCD screen
- Operator Fitness Alarm System

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Purpose

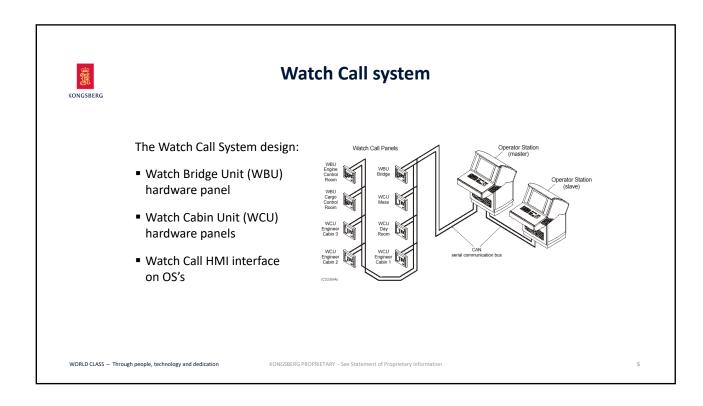
Monitors the vessel during Unmanned Machinery Space/Engine 0 (UMS/E0).

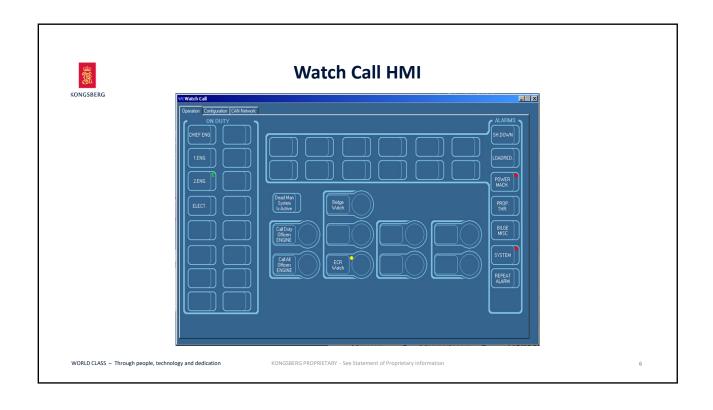
Two main functions:

- Alarm extension
- Officer call

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Watch Call Repeat philosophy

- There are 2 main differences in the Watch Call set up, depending on which class society the vessel has its approval from
- Ex 1: One engineer set on duty, if not acknowledge (ack) within 3 minutes, the Chief Engineers panel is active, if not ack within 3 new minutes, ALL engineers are on duty
- Ex 2: One engineers set on duty, if not ack in ECR within 5 minutes, ALL engineers are on duty
- It is only possible to deactivate the Watch Call from the responsible OS Stations

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Watch Bridge Unit

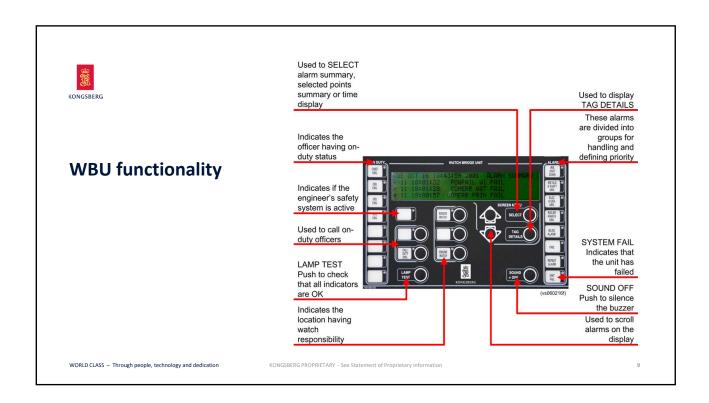
Watch Bridge Unit (WBU)

 LCD (Liquid Crystal Display) type, which has a 4 row by 40 characters display, and six alarm groups



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Watch Call Paging Possibilities

- When operating without the Watch Call system active, the system can also be used as a paging system, in case of a minor and/or major emergency
- This is activated by using: Call Duty Officer Engine. The selected Engineers local panel will then sound (call from engine) and on all the public panels
- Or it is possible to activate ALL Engineers panels and public panels by pressing Call All Officers Engine
- This functionality can also be used from the WBU on the bridge

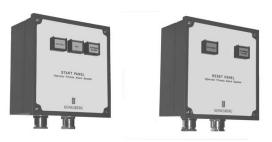
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Operator Fitness Alarm System (OFAS)

- The Operator Fitness Alarm System
- Also called: Engineer's safety system/Dead man alarm system/Patrol Man
- Local start panels are located at each entrance to ECR. It is also possible to start the OFAS from the OS in ECR



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Operator Fitness Alarm System

Functions:

Start, stop and reset from push-buttons on Panels

When OFAS is activated:

- The system will activate a separate rotating light after an expired time delay (3 27 minutes)
- The engineer must now reset the system (reset button on local reset panels located around in Engine Room space) within the timeout time (3 minutes)
- If the system is not reset within this time period, the system will activate the Dead Man Alarm in WBU,WCU's and Horn/Light to alert personnel

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Operator Fitness Alarm System

Local control

- The system could be activated and de-activated manually by activating the ON/Test button on start panel for some seconds, or to activate it from the HMI in local OS in ECR
- The system is also activated automatically from the alarm system when an engine room alarm occurs during unmanned engine room
- It is important to turn the OFAS system OFF, when leaving the ECR

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Operator Fitness Alarm System / Dead Man Alarm System

System On

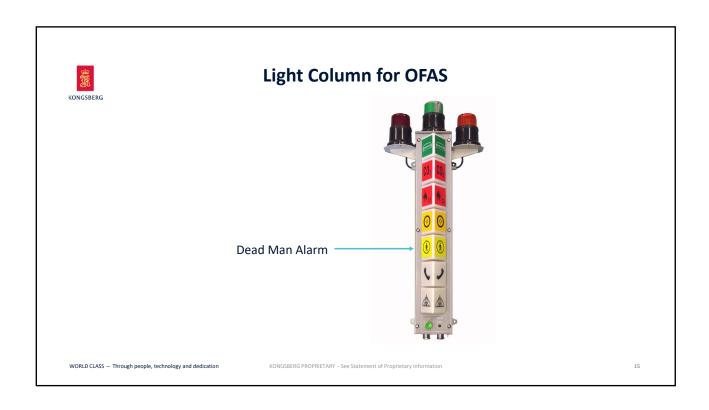


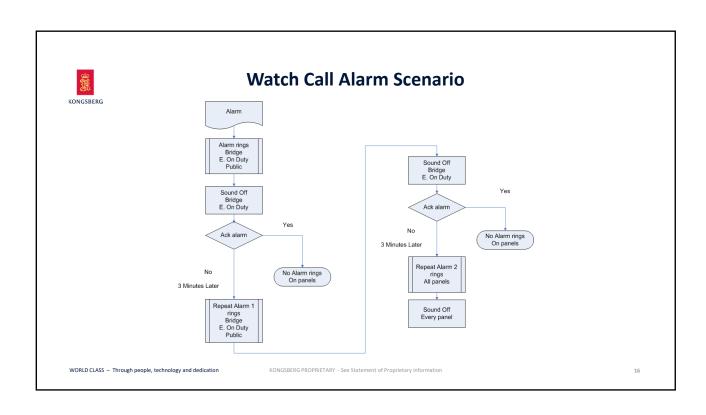
Dead Man Alarm activated



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Exercise:

Watch Call

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Learning Objectives

- Describe the purpose of the Watch Call system
- Identify a physical Watch Call unit
- Explain the bridge watch functionality (Used for EO (unmanned machinery))
- Explain the repeat alarm philosophy of Watch Call
- Describe the different functionality in WBU and WCU
- Identify and explain the Watch Call HMI
- Assign engineers on duty and transfer to Bridge Watch Control
- Identify a physical Operator Fitness Alarm System Unit
- Explain the functionality in Operator Fitness Alarm System

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