

# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

master

How much sailing time do/did you have? \*

15 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

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#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

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Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

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Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

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SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

A type based on GPS was on board not giving the concentric circles

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

End

If you have any more remarks, please leave them down below.

Often problems getting contact

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

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What is/was your rank onboard? \*

2nd engineer

How much sailing time do/did you have? \*

80 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Antenna and power supply problems

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Find repair replace. Use redundant system parts.

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

replace batteries repair battery charger

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

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Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

use smartphone decoder

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

With technical problems always call an engineer.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Pilot

How much sailing time do/did you have? \*

76 Months + 33 years pilotservice

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Noise reduction ( squelch) not effective.  
.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

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#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Same problem with noise reduction.

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

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#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

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Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

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Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

chief mate

How much sailing time do/did you have? \*

7 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

while set on low power, the vessel's VHF automatically switches to high power when a communication is detected. Even though we deactivated this function. We had to switch it off completely during that cargo operation and use portable ones. A technician fixed it later on. Note: the vessel was just leaving shipyard

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

electrician fixed connections and insulation. It partially solved the disrupting background noise problem

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

reboot. And... read the manual as it was a different model of the ones used before

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Chief mate

How much sailing time do/did you have? \*

12

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

yes, noisy speakers, not able to follow correctly a communication

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

I took the other VHF until board electrician fixed the problem with shore maintenance backup

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

battery refill

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

did not received reply from shore station during testing the apparatus

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

changing from shore based station

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

replacing paper

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master / pilot

How much sailing time do/did you have? \*

75 monhs / 11 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Poor reception / transmission without warning

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Gmdss console on fire

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

Switch off

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

---

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Sending unintentionakly

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

Gmdss console almost on fire, had to shut down

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

chief mate

How much sailing time do/did you have? \*

10 yrs

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

very low range/reception

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

antenna cable was broken - replaced cable

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

unable to find satellite

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

manual login / change course (antenna behind mast)

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2/0

How much sailing time do/did you have? \*

30months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Returning to single watch when double watch was active / range of receipt is sometimes disappointing/  
once also problem with self test but switching off and on helped

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Switching on/off

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Accidentaly change to other channel or change volume

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

Lock button

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

NAVTEX

Please describe how you fixed this problem

Switch on/off

---

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd officer DPO

How much sailing time do/did you have? \*

7 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify  
suddenly switching on and off

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

Service engineer

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

captain

How much sailing time do/did you have? \*

25+years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

off/on

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

charge battery

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

fixed by ETO

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

as per manual

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

off/on

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

replace battery

.....

End

If you have any more remarks, please leave them down below.

sailing with radio officer prior GMDSS was easier

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Cadet

How much sailing time do/did you have? \*

12 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

3/0

How much sailing time do/did you have? \*

3 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

the device didn't update position

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

the electrician checked and it was a fuse issue

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

just not print the unwanted messages

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

hope it works

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

3rd officer

How much sailing time do/did you have? \*

5 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

third officer

How much sailing time do/did you have? \*

1 year

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

none

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

none

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

nil

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

24year career

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

new installations due especially for vessels more than 12 years old

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify  
inadequate service reports or manufacturers guidelines

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

same as previous often item will be replaced after 12 years.

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

The device displays the message "ANT power voltage abnormality" or similar

The device displays the message "Carrier power level" or similar

The device displays the message "EEPROM ERROR" or similar

The device displays the message "Synthesizer UNLOCK" or similar

The device displays the message "External NAV equipment failure" or similar

The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

software updates on regular bases are required

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

new replacement area / safety plan adaptation

.....

End

If you have any more remarks, please leave them down below.

nil

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

20 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

poor reception

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify  
problems with mf/hf tests with coast stations

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

Damaged cable connections to sat-C antenna, mostly due to high mast vibrations

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

Restore the proper connection

Have you ever experienced problems with NAVTEX? \*

Yes

No

NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

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Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd officer

How much sailing time do/did you have? \*

50 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Position was not coming to the VHF set so we studied the line diagram and traced the feedback to VHF was from GPS and the fused was blown. So we changed the fuse. And problem got solved.

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

The device displays the message "ANT power voltage abnormality" or similar

The device displays the message "Carrier power level" or similar

The device displays the message "EEPROM ERROR" or similar

The device displays the message "Synthesizer UNLOCK" or similar

The device displays the message "External NAV equipment failure" or similar

The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

Navtex printer is designed to print certain amount of lines and words. After this printer has to be replaced, so we replaced the printer and problem got solved.

---

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd officer

How much sailing time do/did you have? \*

31 month

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

master

How much sailing time do/did you have? \*

25 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

remote service assistance

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

printing unit not coorect functioning

Where you able to fix the problems that you have encountered? \*

Yes

No

NAVTEX

Please describe how you fixed this problem

replace of printing unit

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

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Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd Off

How much sailing time do/did you have? \*

6 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

nil

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Switch on/off, restart test

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

manual troubleshooting in use

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

nil

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

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What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

10 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

Battery exchange

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Test call was not confirmed

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

Call service

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

The device displays the message "ANT power voltage abnormality" or similar

The device displays the message "Carrier power level" or similar

The device displays the message "EEPROM ERROR" or similar

The device displays the message "Synthesizer UNLOCK" or similar

The device displays the message "External NAV equipment failure" or similar

The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

No LRIT transmission

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

restarted , performed test, Log out, Log in...

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

Cleaned roller

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

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What is/was your rank onboard? \*

ff

How much sailing time do/did you have? \*

ff

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Furuno

How much sailing time do/did you have? \*

31

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

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What is/was your rank onboard? \*

Captain

How much sailing time do/did you have? \*

15 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

Restart unit

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Second officer

How much sailing time do/did you have? \*

More or less than 15 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

No

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

Just checking all the connections at the back of the MF/HF radio take it out and plug it again

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

No

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

Call a technician

---

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

It's is very important to do the weekly or monthly testing if all the equipments it will help you to monitor if there's any problem.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

15 years total sailing time

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Replaced the fuse of power supply

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

Arranged shore service

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

Shore technician attendance

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

NAVTEX

Please describe how you fixed this problem

Selected correct navtecmx stations and message types

---

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Second officer

How much sailing time do/did you have? \*

39 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

By increasing the RX value to more than 40

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

3rd Officer

How much sailing time do/did you have? \*

1 year and 5 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

Nil

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Second officer

How much sailing time do/did you have? \*

2 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Second Officer

How much sailing time do/did you have? \*

5

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Problem with weekly test on shore station.  
.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

Making weekly test to ship station

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

No remarks

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2 officer

How much sailing time do/did you have? \*

abt 4 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

Inm-C: was error "cannot communicate with the transceiver" and "critical error floppy disk"

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

nil

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Chief officer

How much sailing time do/did you have? \*

11 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Junior officer

How much sailing time do/did you have? \*

21 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

20 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

3rd officer

How much sailing time do/did you have? \*

32 months

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

VHF freezes

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

By restarting the equipment

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

Yes in Sat-c , unable to select satellite

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

By continuously selecting the same satellite and restarting the equipment

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd off

How much sailing time do/did you have? \*

4y

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Unable to communicate with other station due to damage to antenna/ bad position on the ship

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Replace antenna

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Unable to sent/receive DSC safety test to/from other station during weekly test

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

In my 4y sailing I never was in a situation were we had to use MF/HF. When VHF range is not sufficient you will always use Inmarsat.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd officer - DPO

How much sailing time do/did you have? \*

6 year

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

No

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Hard reset

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

None

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd officer - DPO

How much sailing time do/did you have? \*

6 year

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

No

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Hard reset

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

None

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2nd officer

How much sailing time do/did you have? \*

3 years at sea

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Most of our problems occur when we try to contact the radio room of an offshore platform. E.g. 2h notice prior to arrive in the field. Most of the time we have to contact the (much smaller) guard vessel in order to relay our message.

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Relay the message using the guard vessel of the platform.

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

From time to time the device freezes.

From time to time the devices aborts the self test prior to completion.

More and more coastguard stations do not reply on the DSC test messages. (Annoying since from time to time you have to prove the acknowledgement messages during audits.)

---

Where you able to fix the problems that you have encountered? \*

Yes

No

MF/HF

Please describe how you fixed this problem

Restart the MF/HF receiver.

Restart the receiver and the self test.

Contact coastguard by means of VHF / Sat telephone / e-mail and request a MF/HF test. Or make a test with another vessel in order to rule out that your MF/HF transmitter/receiver is not working properly.

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

Device crashed after accidental removal of boot files by deck cadet who had to erase the EGC messages during the weekly GMDSS test.

Device freezes during the link test.

Alarm freezes after the reception of a distress message.

Where you able to fix the problems that you have encountered? \*

Yes

No

Inmarsat

Please describe how you fixed this problem

Install back-up files on the device together with electrician.

Reboot device and link-test.

Reboot device in order to reset the alarm.

NAVTEX

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

- Unable to turn on the power
- NAVTEX signal cannot be received
- The equipment receives unwanted messages
- There was a problem with the printer of the NAVTEX
- Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Device showed NG during the self test.

Where you able to fix the problems that you have encountered? \*

- Yes
- No

## NAVTEX

Please describe how you fixed this problem

Reboot the unit.

## EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

Order new battery pack for the SART

End

If you have any more remarks, please leave them down below.

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Senior DPO

How much sailing time do/did you have? \*

11 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Blind spot of the antenna. Other vessels hear us, but we are not receiving the other vessels

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Change of antenna position

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

water in the system

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

charge the battery

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

12 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Captain

How much sailing time do/did you have? \*

15 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Freezing of unit & power failure

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

The mystery of Roll Over of GPS (of AIS? Inmarsat, etc.)

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Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Chief Officer

How much sailing time do/did you have? \*

4 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

Inm C

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

---

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

Have had some malfunctioning equipment but when switching off and on does not help, you call shore service. In any case, you have duplication of equipment so that this is not a problem

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

15

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Bad signal, interruption

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Chief Officer

How much sailing time do/did you have? \*

12 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

The portable VHF was not receiving signals. Poor reception with noise.

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

No replies from coast stations for test messages.

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

Via shore based maintenance technician. We are not allowed to do repairs on board. Vessel covered by duplication equipment and shore based maintenance.

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

The device displays the message "ANT power voltage abnormality" or similar

The device displays the message "Carrier power level" or similar

The device displays the message "EEPROM ERROR" or similar

The device displays the message "Synthesizer UNLOCK" or similar

The device displays the message "External NAV equipment failure" or similar

The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Self test of GPS failed

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

Not all portable GMDSS VHF's are intrinsically safe.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Chief Officer

How much sailing time do/did you have? \*

Effective sailing time 5 years (10 years career)

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

Ordered new batteries.

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

Restarted / rebooted the unit.

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

No.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Captain

How much sailing time do/did you have? \*

20

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

VHF DSC messages cannot be transmitted

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

The device displays the message "ANT power voltage abnormality" or similar

The device displays the message "Carrier power level" or similar

The device displays the message "EEPROM ERROR" or similar

The device displays the message "Synthesizer UNLOCK" or similar

The device displays the message "External NAV equipment failure" or similar

The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify  
cracks in the EPIRB

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

13 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Poor reception and transmission, the vhf channel switches automatically to channel 16 when the horn is put back in the holder (if you do not pay attention, you are listening to channel 16 instead of the required channel, which leads to dangerous situations for navigation!)

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Poor reception and transmission, vulnerable to water and dirt ingress, poor speakers

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

No connection

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

---

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

---

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

2ND OFFICER

How much sailing time do/did you have? \*

5 YEARS

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

REPLACED FUSE AND FIX OPEN WIRES THAT CAUSES GROUNDING

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

10 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Too much communication on VHF channels

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

30

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Performance reduced due to water in the antenna cable or deteriorated connection (antenna to cable).

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

renewal of antenna and antenna cable

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Display out of order

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Emergency Power not able to load properly

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

Renewal of batteries

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

Sat-C antenna failure

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

Installing a new antenna

Have you ever experienced problems with NAVTEX? \*

Yes

No

#### NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

#### NAVTEX

Please describe how you fixed this problem

Renewal of the receiver unit; Setting the printer properly up

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Unit cracked

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

Renewal of the unit

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

Renewal of the unit

.....

End

If you have any more remarks, please leave them down below.

No more remarks

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

second officer

How much sailing time do/did you have? \*

5

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

MF/HF

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Master

How much sailing time do/did you have? \*

26 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

Break down of PTT button

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Dismantled handset and repaired contact

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Poor quality of device, poor batteries

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

---

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Lightning strike, grounding issues

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

Replacement of antenna, grounding contacts

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

Breakdown of LRIT antenna (connected to Sat C), Loss of signal due to shifting satellite.

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

Renewal LRIT antenna, manual login when satellite signal lost

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

---

End

If you have any more remarks, please leave them down below.

Note that most VDR systems have their own EPIRB, only few landstations still respond to DSC call testing.

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Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Marine Consultant

How much sailing time do/did you have? \*

19

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

Onshore Technician has been contacted for repair

Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

ordered new batteries

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

new cabling installed by ETO

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

Yes

No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

## NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

## NAVTEX

Please describe how you fixed this problem

---

#### EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

#### EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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# Problems experienced with GMDSS equipment on board of ships

In this questionnaire, we intend to identify the most common problems faced by seafarers with the GMDSS equipment on board merchant ships. Additionally, the outcome of this survey will provide useful insight into the potential technical skills for seafarers.

What is/was your rank onboard? \*

Second Officer

How much sailing time do/did you have? \*

2 years

VHF

Have you ever experienced problems with VHF? \*

Yes

No

VHF

Which of the following problems have you experienced with the VHF?

- Unable to turn on the power
- Fuse blows every time the device is put on the power grid
- The speakers of the device do not work
- The speakers of the device make weird noises when the engine of the vessel is on
- The device displays an 'L' or an 'H'
- The device does not show a position
- The VHF only sends in low transmission mode even when high power is selected
- Transmission power is automatically lowered to 'low'
- The device displays the message 'PLL UNLOCK' or similar
- The device does not receive AIS messages
- The device shows NG after a diagnostic test
- The device displays the message "Startup failed. Turn the system off and wait a short while before turning the system on again." or similar

Did you encounter other problems than the ones listed above with VHF? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

VHF

Please describe how you fixed this problem

---

#### Portable GMDSS compliant VHF

Have you experienced problems with portable VHF? \*

Yes

No

#### Portable GMDSS compliant VHF

Which of the following problems have you experienced with the portable GMDSS compliant VHF?

The device displays the message 'Err hw err' or similar

The device displays the message 'illegal' or similar

The device ran out of battery

Did you encounter other problems than the ones listed above with portable GMDSS compliant VHF? Please specify

---

Where you able to fix the problems that you have encountered? \*

Yes

No

Portable GMDSS compliant VHF

Please describe how you fixed this problem

Batteries were replaced by new ones.

MF/HF

Have you ever experienced problems with the MF/HF? \*

Yes

No

MF/HF

Which of the following repairs or problems have you experienced with MF/HF?

- You had to clean the cable between the antenna and the antennatuner
- You had to re-span the antenna
- You had to tighten loosened connections
- You had to replace damaged insulators
- Unable to turn on the power
- The speaker of the device does not work or is noisy
- Transmission power is automatically lowered to 'low'
- Antenna coupler cannot tune the antenna
- The device displays the message "Ship's mains failure", output power indicator blinks and transmission power is decreased to LOW or similar
- The device displays an "EPFS error" or "No position data" or similar
- The device displays "Trouble: Oven not ready" or similar
- The device displays "Tune error" or similar
- The device displays "PLL UNLOCK" or similar

Did you encounter other problems than the ones listed above with MF/HF? Please specify

---

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Please describe how you fixed this problem

---

Inmarsat

Have you ever experienced problems with the Inmarsat? \*

- Yes
- No

Inmarsat

Which of the following repairs or problems have you experienced with Inmarsat-C?

- The device displays the message "ANT power voltage abnormality" or similar
- The device displays the message "Carrier power level" or similar
- The device displays the message "EEPROM ERROR" or similar
- The device displays the message "Synthesizer UNLOCK" or similar
- The device displays the message "External NAV equipment failure" or similar
- The device displays the message "Internal GPS UNIT failure" or similar

Which of the following repairs or problems have you experienced with Inmarsat Fleet 77?

- The device does not power up
- All dialups dial in MPDS mode (Mobile Packet Data Services)
- The handset display stays completely black
- The device has problems with data communication
- There is no communication or very noisy communication
- The device displays the message "Unsuccessful call attempt" or similar
- The device displays the message "Unable to read fwd and ret ID" or similar
- The device displays the message "Traffic log is full" or similar

Did you encounter other problems than the ones listed above with Inmarsat-C or Inmarsat Fleet 77? Please specify

.....

Where you able to fix the problems that you have encountered? \*

- Yes
- No

Inmarsat

Please describe how you fixed this problem

.....

Have you ever experienced problems with NAVTEX? \*

Yes

No

NAVTEX

Which of the following repairs or problems have you experienced with NAVTEX?

Unable to turn on the power

NAVTEX signal cannot be received

The equipment receives unwanted messages

There was a problem with the printer of the NAVTEX

Batteries of the NAVTEX had to be changed (only applicable to some models)

Did you encounter other problems than the ones listed above with NAVTEX? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

NAVTEX

Please describe how you fixed this problem

Navtex printer was replaced.

EPIRB

Have you ever experienced problems with EPIRB? \*

Yes

No

EPIRB

Which of the following problems have you experienced with the EPIRB?

The self-test indicated a problem

The battery of the EPIRB had to be replaced or a problem with the battery arised

The EPIRB is not correctly mounted

Did you encounter other problems than the ones listed above with EPIRB? Please specify

Where you able to fix the problems that you have encountered? \*

Yes

No

EPIRB

Please describe how you fixed this problem

---

SART

Have you ever experienced problems with SART? \*

Yes

No

SART

Which of the following problems have you experienced with the SART?

The self-test indicated a problem

The battery of the SART had to be replaced or a problem with the battery arised

The SART is not correctly mounted

Did you encounter other problems than the ones listed above with SART? Please specify

.....

Where you able to fix the problems that you have encountered? \*

Yes

No

SART

Please describe how you fixed this problem

.....

End

If you have any more remarks, please leave them down below.

.....

Thank you for completing this survey!

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