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Good morning Mr. Flaherty,

Thank you for your email. Happy new year.

Please find our answers below in red.

Best regards,

From: David Flaherty
Sent: Tuesday, December 31, 2024 5:11 PM
To: Eyüp Yılmaz
Cc:
Subject: RE: Follow up Flagship Fire Casualty Questions
Importance: High

Hi

Hope all is well and Happy New Year!

Just a few more questions.

Can you please confirm that this is the 24 volt Lithium-ion battery bank (Post Casualty) that was not operational when the vessel departed Turkey.

These are 24 Volt Lithium-Ion Batteries installed on Flagship.

Please pass how many cells were contained in each battery banks for the 24 volt Lithium-ion battery bank.

The cell configuration of a 24 Volt 200 Ah battery is 7S64P. Attached please find its specification, on Flagship 200Ah versions were used.

At what level of charge would the Battery Management System start charging the 24 volt Lithium-ion battery bank?

As far as I know this parameter is adjustable, on Flagship at charge level of 94% BMS would start charging 24 Volt batteries, please find the BMS manual attached.

At what level of charge would the Battery Management stop charging the 24 volt Lithium-ion battery bank?

100%, BMS would stop charging after 24 Volt batteries are fully charged.

If the Battery Management System is not operational of working as per design, how can it be determined that the 24 volt Lithium-ion batteries require charging?

A separate device can be used to check the charge level of the batteries, but this has no meaning at all, without a working BMS there is no proper way to charge the batteries and/or use energy from these batteries.
The only sideway is to bypass the main safety contactor of the BMS, that was the case as evidenced during the inspection, which should have never been done.

Does you company have a picture that you can provide to me of the 24 volt Lithium-ion battery bank after it was installed within the vessel?

Unfortunately we could not find any specific pictures of the 24 Volt Battery bank, taken after

installation.