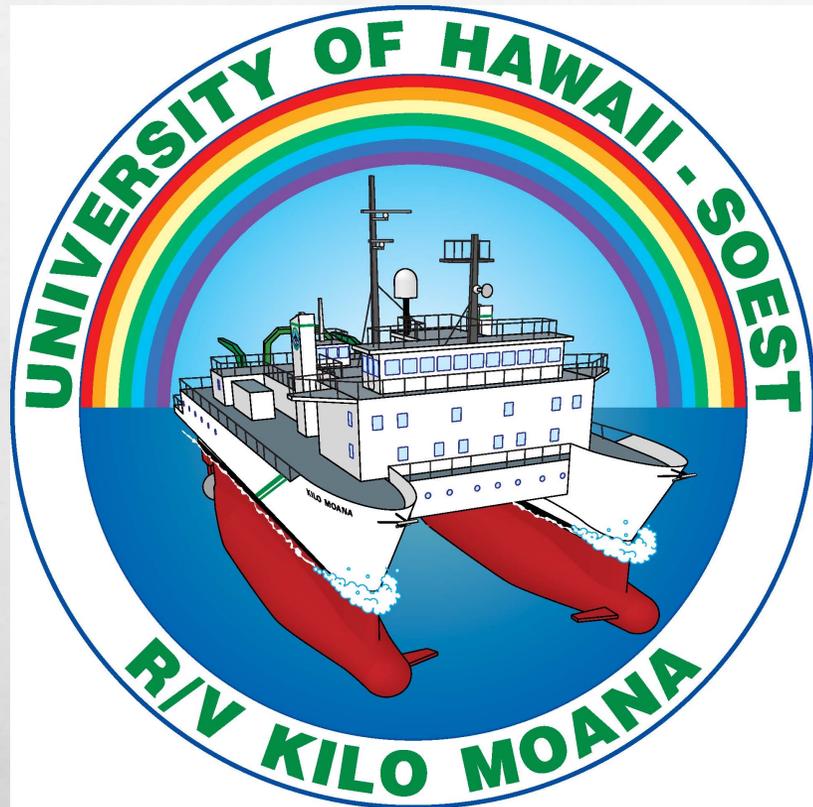


# **R/V *KILO MOANA* – SMOKE INCIDENT BRIEF**



## **Overview of Mishap Report and Lessons Learned**

# **OBJECTIVES**

- **SUMMARY OF MISHAP**
- **CONCLUSIONS**
- **LESSONS LEARNED**

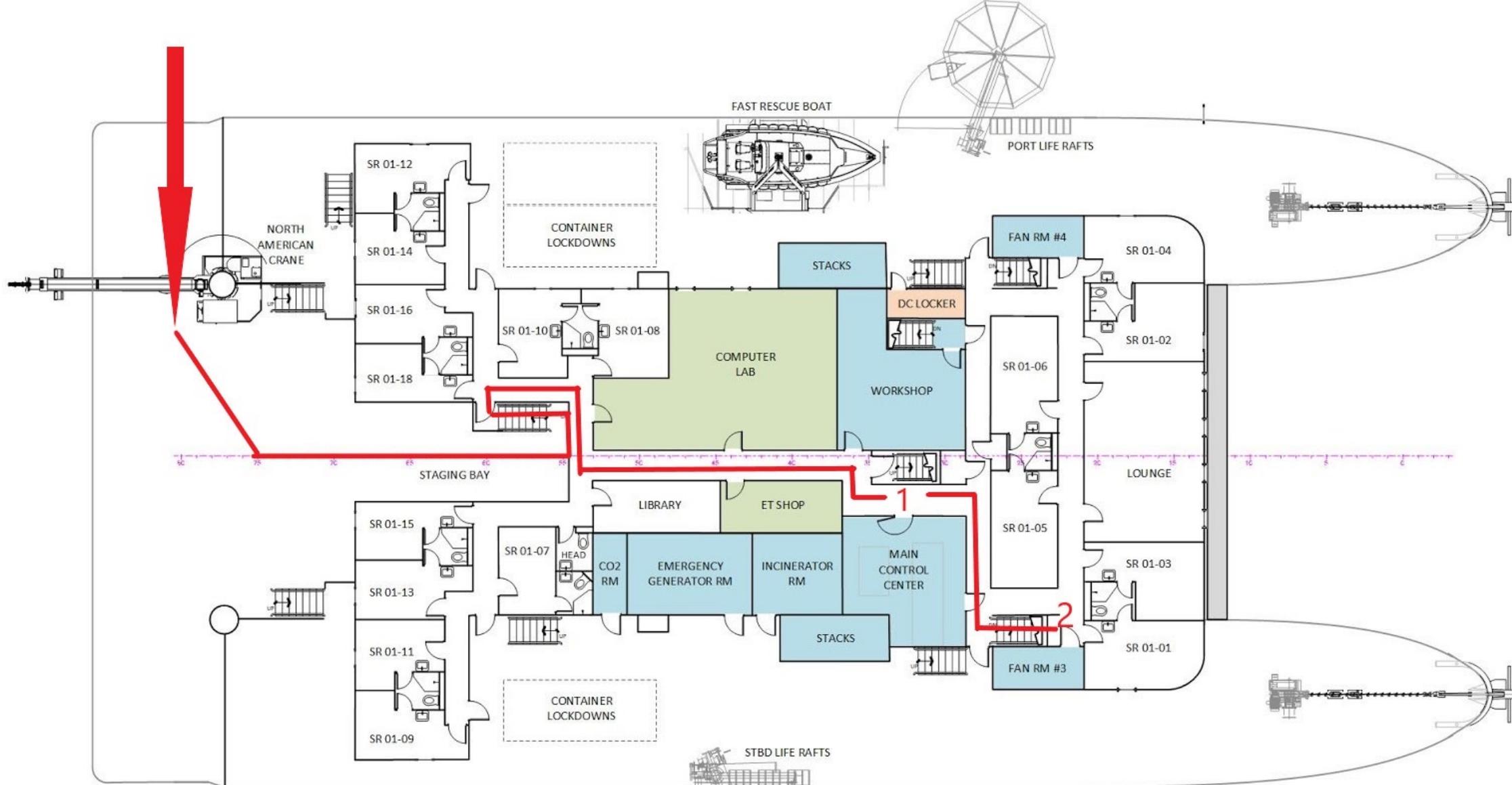


# SUMMARY OF MISHAP

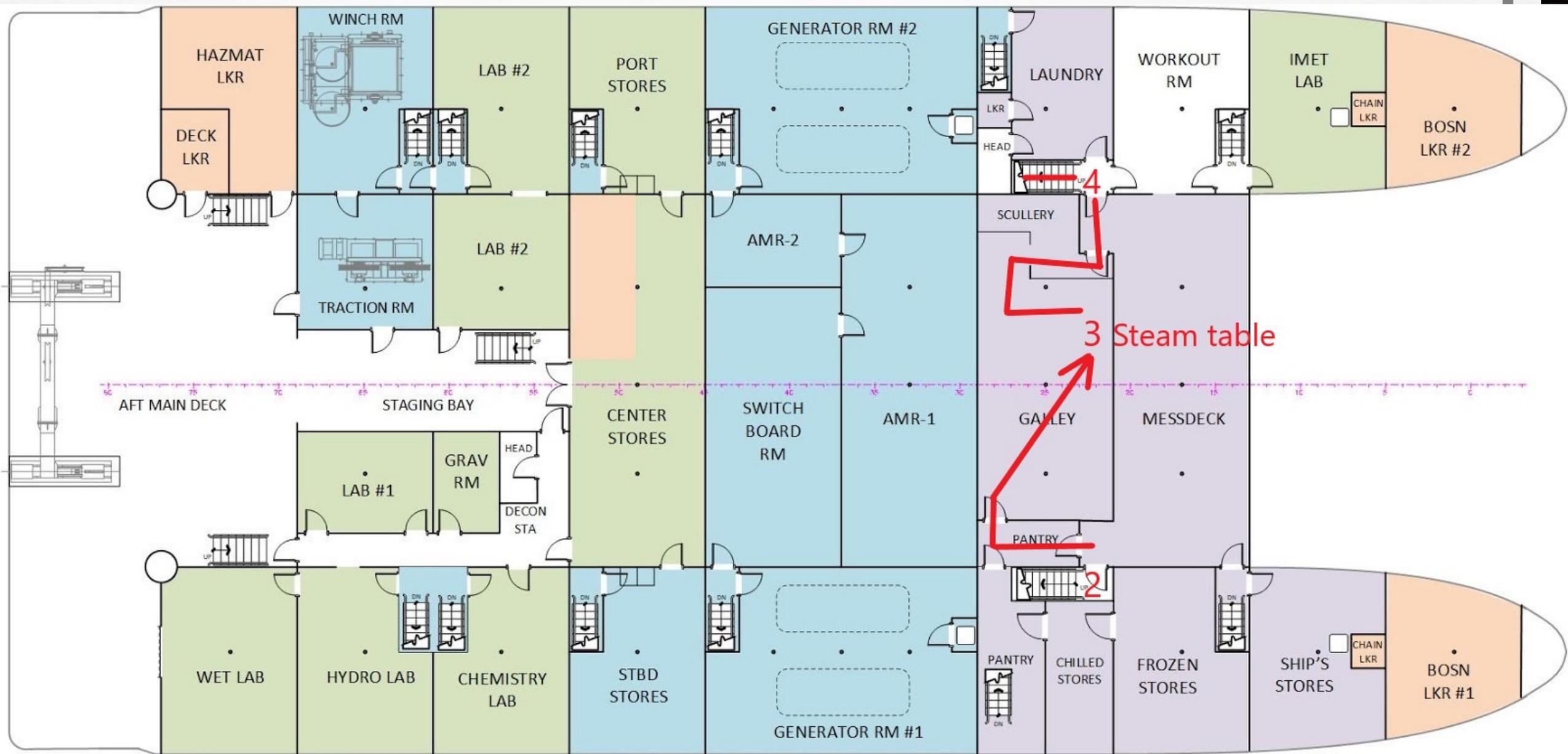
- On Friday January 13th, 2023, at 0231 local (UTC-10), smoke was detected in the Galley.
- Crewmembers responded to the incident and found food smoldering on the serving line steam table causing smoke throughout the Galley and Mess Deck area.
- One crewmember entered the space and deenergized the warmer and removed smoldering food trays.
- This incident resulted in one injury that required treatment beyond first aid. There was no damage to the vessel, Galley or equipment.

# PICTURE OF STEAM TABLE AND BURNED FOOD





SCIENCE   ENGINEERING   **01 DECK**   DECK   STEWARDS



SCIENCE
ENGINEERING
DECK
STEWARDS
**MAIN DECK**

# CONCLUSIONS

- The source of the smoke and smoldering was determined to be from food that was left out overnight in the steam table.
- It is unknown at what temperature the steam tables were set at as the Chief Mate secured them during the response.
- It is neither UHMC or Kilo Moana policy to provide hot food outside of posted meal hours.

# **LESSONS LEARNED**

- **Lesson 1 – Galley Policy**
- Strict compliance to Galley policies, procedures and checklists are required to ensure food safety, sanitary dining areas and fire safety.
- Due to the nature of the work as well as equipment and space arrangement, this area of the ship has a high potential for fire.

# **LESSONS LEARNED**

- **Lesson 2 – Watch Policy While In-Port**
- A proper watch is to be kept on the vessel at all times.
- An alert watch stander making regular rounds provides the first line of defense against fire, flooding or security threats.
- An overreliance on automated systems and new technology should never be allowed to replace proven maritime principles, best practices and requirements.

# **LESSONS LEARNED**

- **Lesson 3 – SMS Procedures**
- SMS Procedures are key to providing a ready source easily accessible information to all crewmembers and staff ashore.
- SMS Procedures for Fire Fighting should be reviewed to ensure training doesn't stop at the pier because fire and emergency services are nearby.

# **LESSONS LEARNED**

- **Lesson 4 – Crew / Science Member Training**
- Lifesaving and firefighting techniques and procedures must be continually reinforced through frequent and comprehensive training.
- Science riders will be included into drill scenarios and be more active in training to ensure they feel a shared ownership to help protect the vessel whether at sea or in-port.

# LESSONS LEARNED

- **Lesson 5 – Fire Detection & Alarm Configuration**
- While R/V *Kilo Moana* is not required to have a 2-minute deadman alarm installed that will sound the General Alarm, it is agreeably a good idea given the vessel regularly carries up to 49 scientists and crew.
- A deadman alarm is designed to provide an automatic vessel wide back-up incase the initial alarm goes answered.

# QUESTIONS / DISCUSSION

