



中國驗船中心

CR

CONCENTRATED INSPECTION CAMPAIGN (CIC) ON
PROPULSION AND AUXILIARY MACHINERY

重點檢查活動-主機及副機

財團法人中國驗船中心

檢驗處副處長 李前鋒

與海上人命安全國際公約(SOLAS)相關連條款



SOLAS CHAPTER II-1

PART C- MACHINERY INSTALLATIONS

Regulation 26: General

Regulation 27: Machinery

Regulation 28: Means of going astern

Regulation 29: Steering gear

Regulation 30: Additional requirements for electric
and electrohydraulic steering gear

Regulation 31: Machinery controls

Regulation 32: Steam boilers and boiler feed systems



Regulation 33: Steam pipe systems

Regulation 34: Air pressure systems

Regulation 35: Ventilating systems in machinery spaces

Regulation 35-1: Bilging pumping arrangement

Regulation 36: Protection against noise

Regulation 37: Communication between navigation bridge
and machinery spaces

Regulation 38: Engineers' alarm

Regulation 39: Location of emergency installations in
passenger ships



PART D- ELECTRIC INSTALLATIONS

Regulation 40: General

Regulation 41: Main source of electric power and lighting systems

Regulation 42: Emergency source of electric power in passenger ships

Regulation 42-1: Supplementary emergency lighting for ro-ro passenger ships

Regulation 43: Emergency source of electric power in cargo ships

Regulation 44: Starting arrangements for emergency generating sets

Regulation 45: Precautions against shock, fire and other hazards of electric origin

PART E- ADDITIONAL REQUIREMENTS FOR PERIODICALLY UNATTENDED MACHINERY SPACES



Regulation 46: General

Regulation 47: Fire precautions

Regulation 48: Protection against flooding

Regulation 49: Control of propulsion machinery from the navigation bridge

Regulation 50: Communication

Regulation 51: Alarm systems

Regulation 52: Safety systems

Regulation 53: Special requirements for machinery, boiler and electrical installations

Regulation 54: Special consideration in respect of passenger ships

TOKYO MOU AND PARIS MOU

公佈的問卷表



NO.	QUESTION	YES	NO	N/A
DOCUMENTATION				
1	Are instructions and manuals for ship machinery essential to safe operation, written in a language understood by the ship's personnel?	<input type="checkbox"/>	<input type="checkbox"/>	
2	If the ship operates with periodically unattended machinery spaces, has it been provided with documentary evidence of fitness?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MAIN ENGINE AND AUXILIARY ENGINES

3	Do the Oil Mist Detectors or any other automatic shut-off arrangements for the main engine and auxiliary engines appear to be in working order?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Are protective arrangements for machinery in place to minimize danger to persons with regard to moving parts, hot surfaces, electrical shock and other hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MAIN ENGINE AND AUXILIARY ENGINES

5	Does propulsion machinery and essential auxiliaries appear to be in operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	
6	Is cleanliness of the Engine Room, including bilges satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	

AUXILIARY MACHINERY

7	Do the Main or Auxiliary Boilers and Boiler Feed Systems appear to be in safe working order?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Do the emergency sources of power and emergency lighting appear to be in working order?	<input type="checkbox"/>	<input type="checkbox"/>	
9	Do the bilge pumping arrangements appear to be in good working order?	<input type="checkbox"/>	<input type="checkbox"/>	

OPERATIONAL CONTROLS

10	Where an emergency steering drill was witnessed, was it found to be satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Where an emergency operational drill to main engine was witnessed, was it found to be satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Has the ship been detained as a result of this CIC?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



各別機器設備應注意的事項

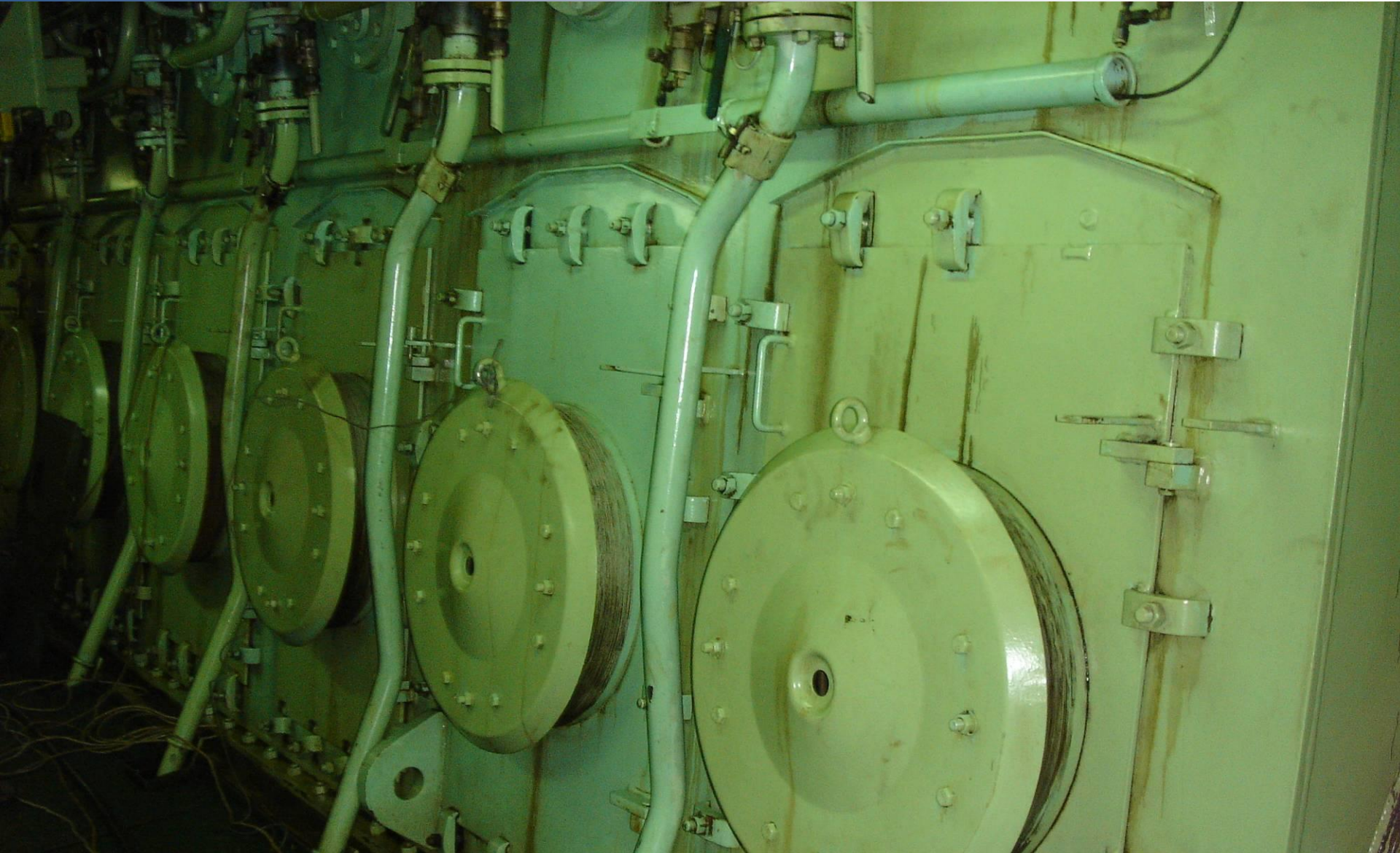
一. OIL MIST DETECTOR 油霧偵測器

適用內燃機出力在2250KW及以上或氣缸直徑超過300mm, 1984年9月1日以後建造者

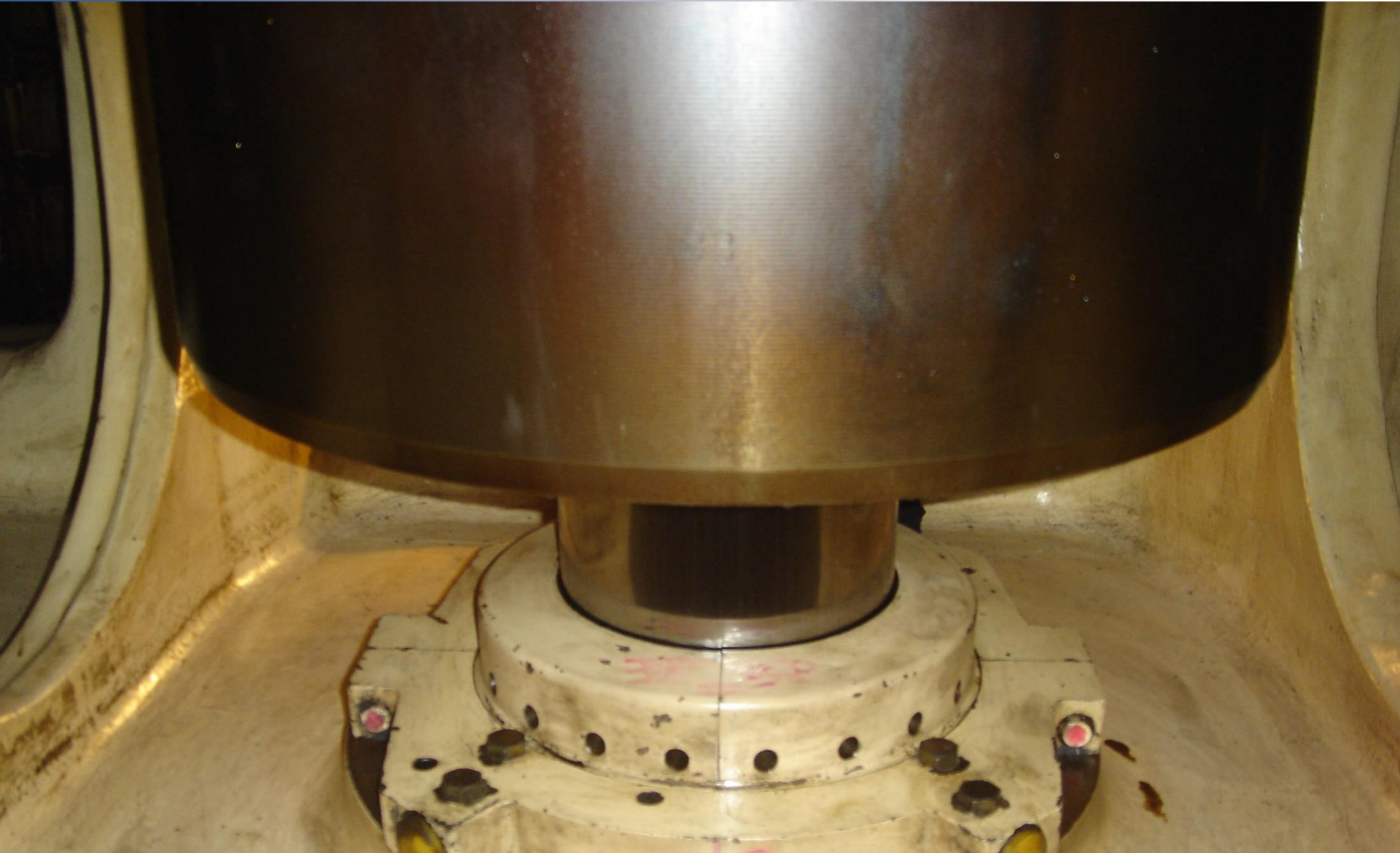
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各別機器設備應注意的事項

二. FIXED LOCAL APPLICATION

FIRE-EXTINGUISHING SYSTEMS

固定式局部滅火系統

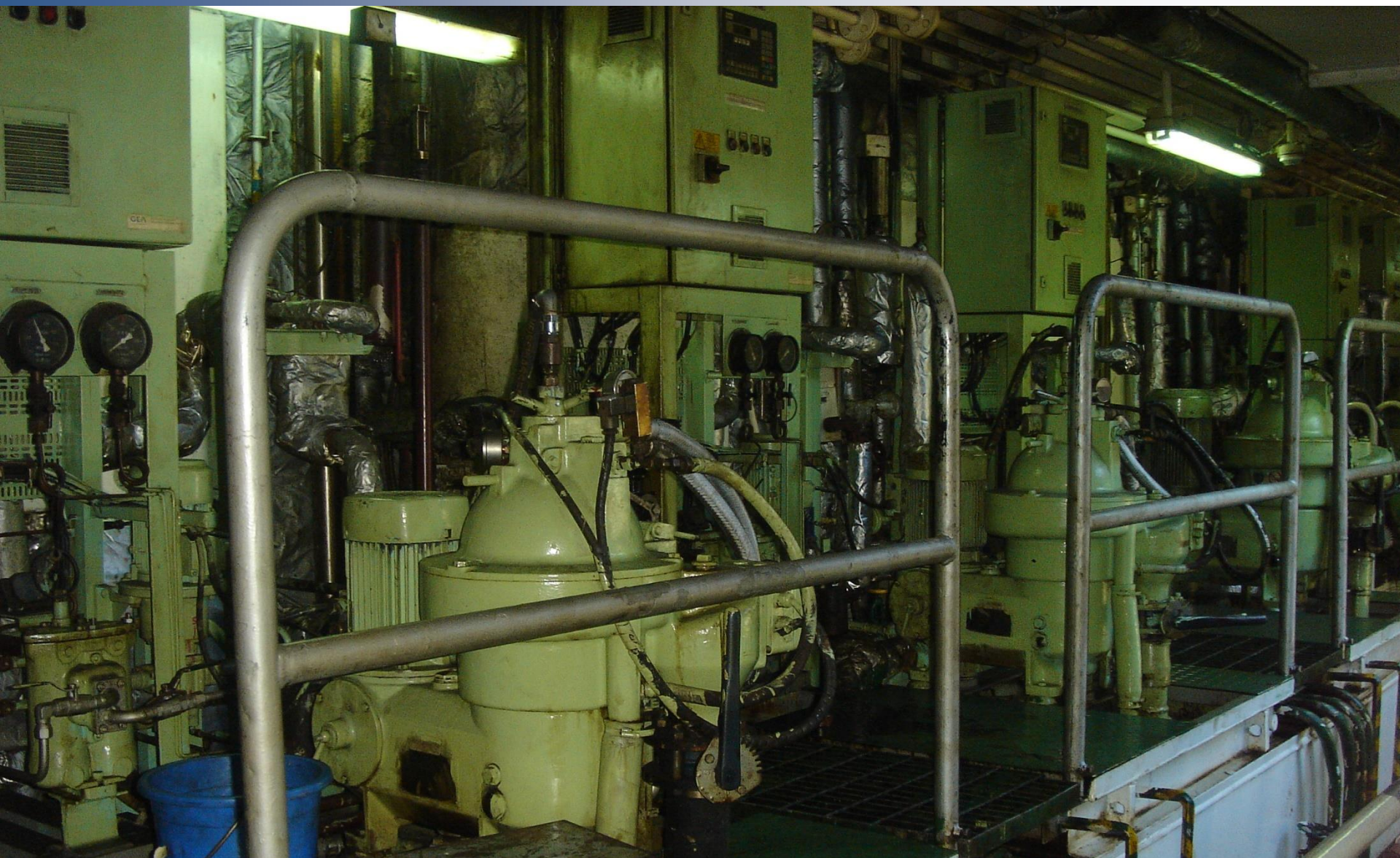
適用貨船2000G.T.及以上，客船500G.T.及以上，甲種機艙空間容積在500M³以上，2002年7月1日以後建造者

二. FIXED LOCAL APPLICATION FIRE-EXTINGUISHING SYSTEMS

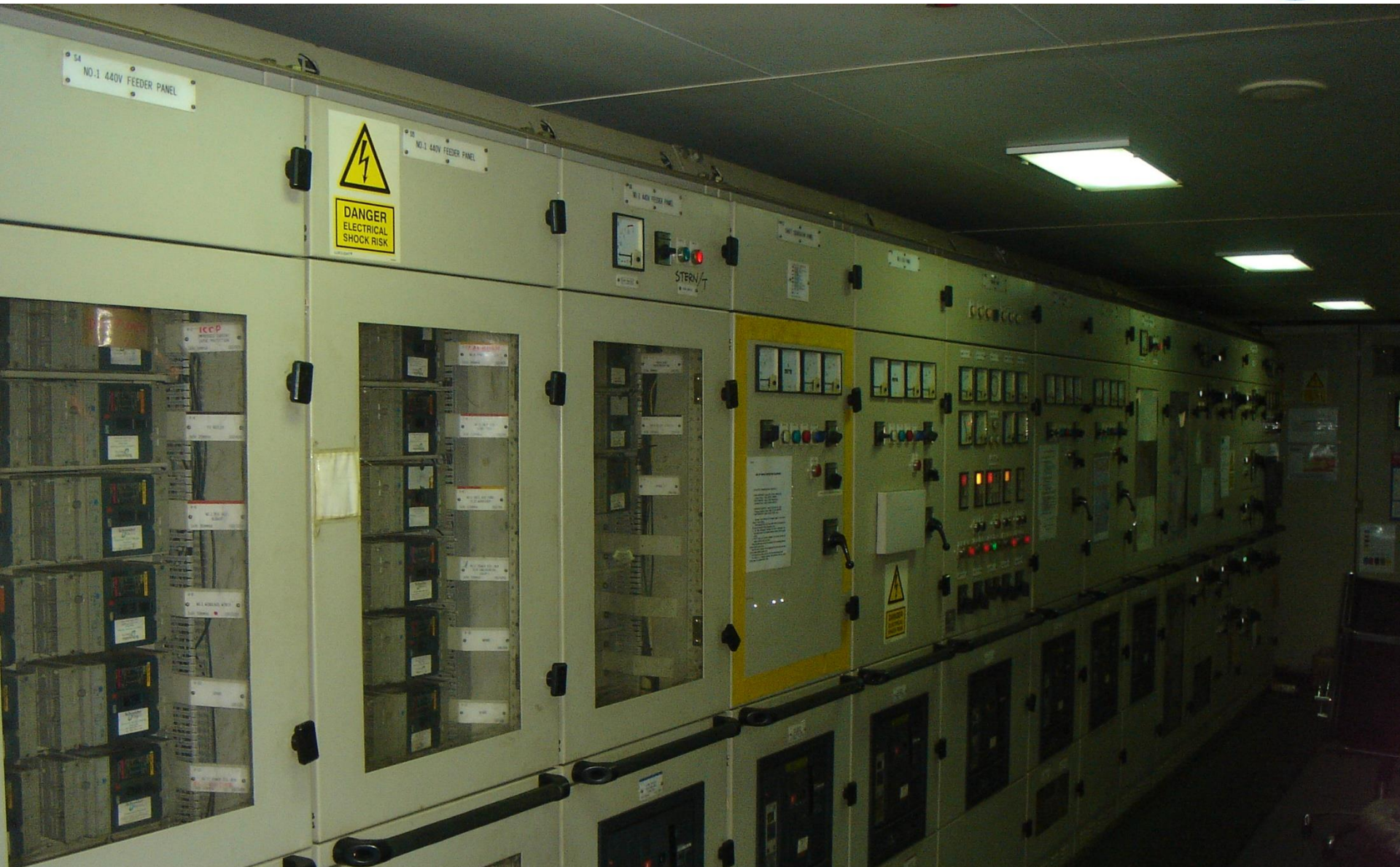
固定式局部滅火系統



三. PURIFIER 淨油機



四. SWITCHBOARD 配電盤



五. SOUNDING PIPE 測深管



六. ISOLATING VALVE 隔離閥



七. EMERGENCY FIRE PUMP

緊急滅火泵

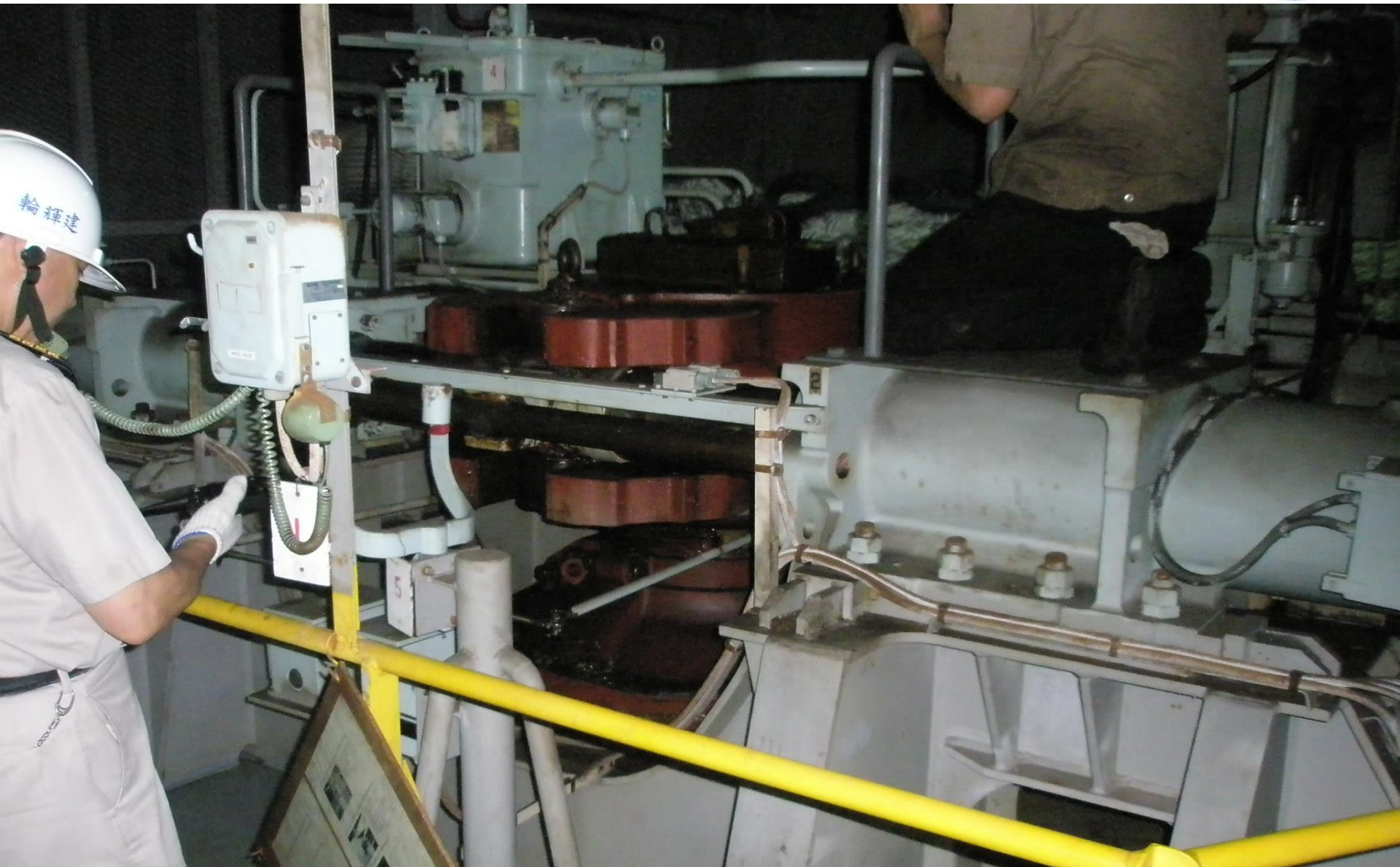


七. EMERGENCY FIRE PUMP

緊急滅火泵



八. STEERING GEAR 舵機



八. STEERING GEAR 舵機



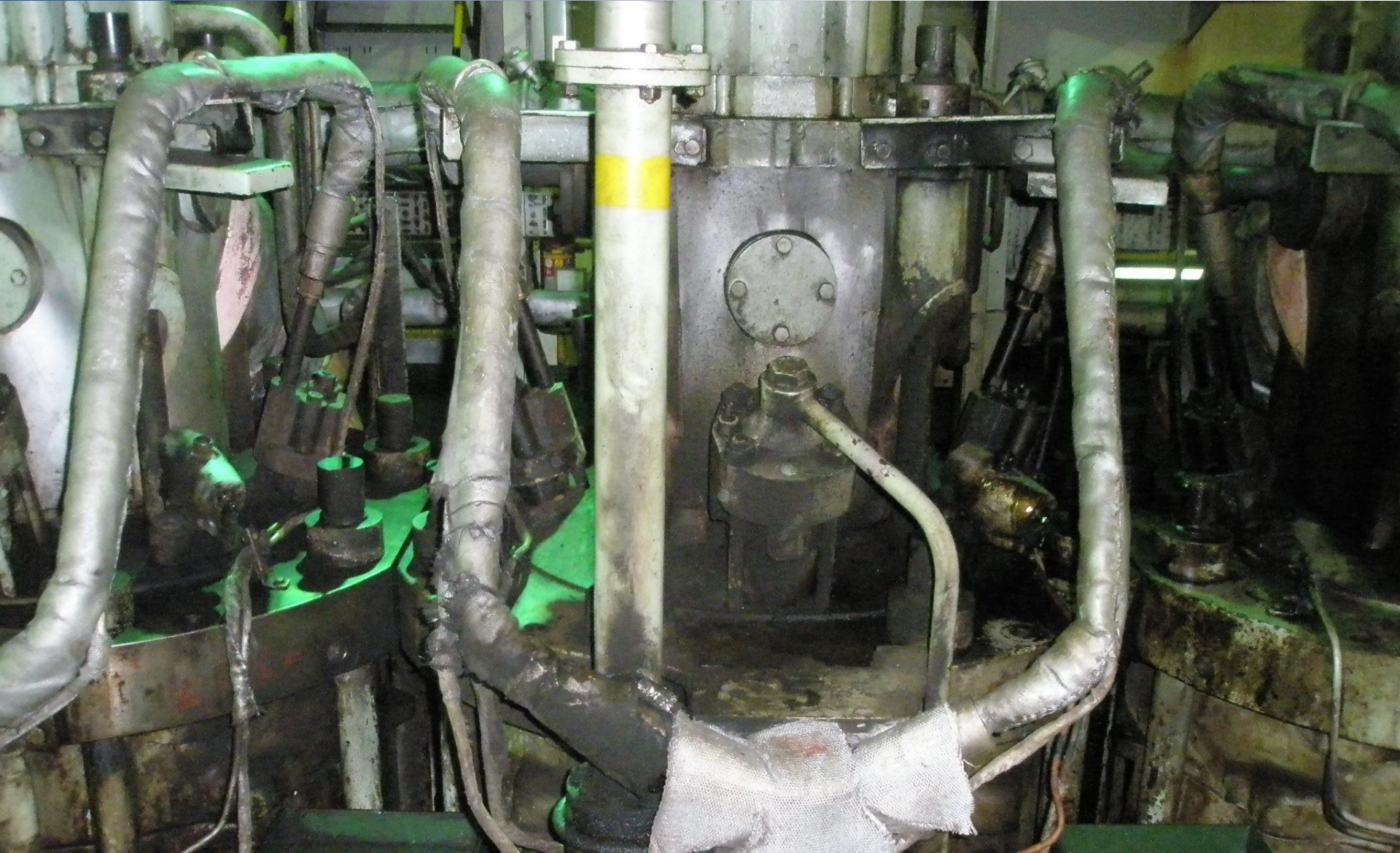
九. MAIN ENGINE 主機

高壓油管加襯套，漏油有警報



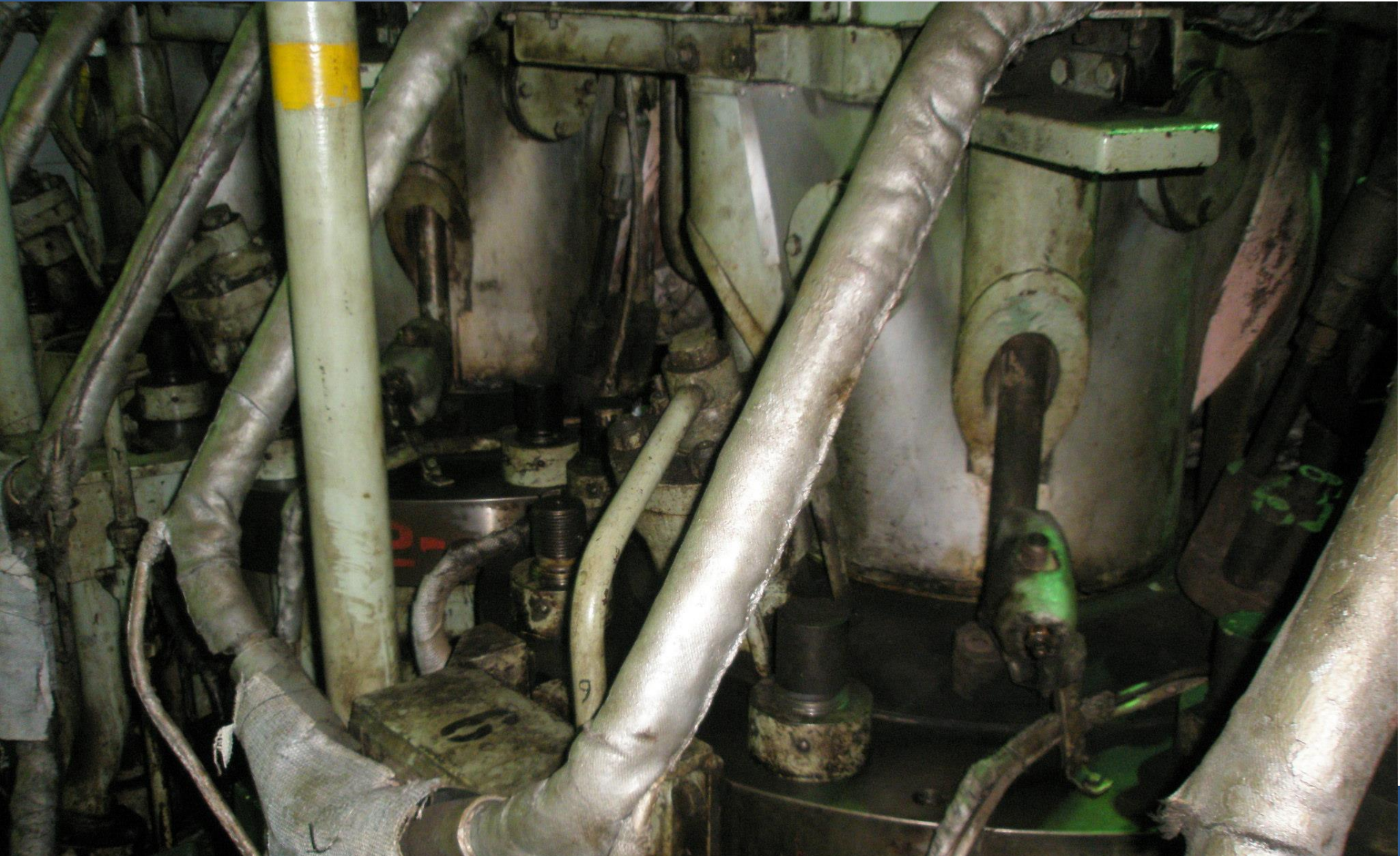
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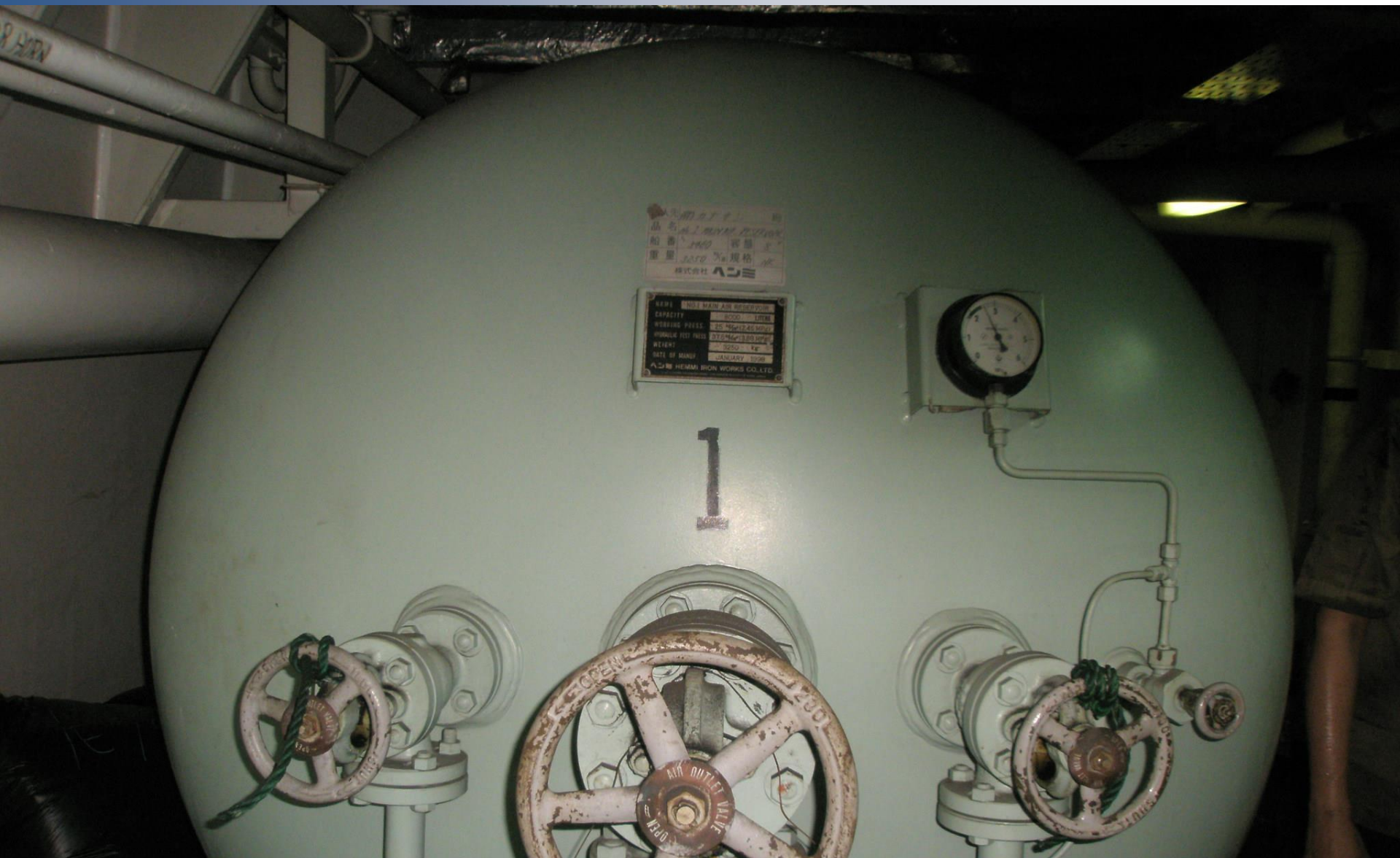


九. MAIN ENGINE 主機

高壓油管加襯套，漏油有警報



十. AIR TANK 空氣櫃



十一. SEWAGE TREATMENT UNIT

污水處理器



十一. SEWAGE TREATMENT UNIT

污水處理器



SEWAGE TREATMENT UNIT
CONTROL PANEL

SOURCE

HIGH WATER
LEVER

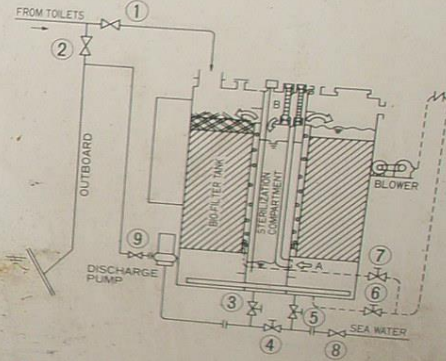
DISCHARGE
PUMP

BLOWER

MANU ↔ AUTO

STOP ↔ RUN

START



大晃機業株式会社
TAIKO KIKAI INDUSTRIES CO., LTD.

OPERATING IN

1. SEWAGE FLOWS
2. USUALLY OPEN
3. DURING BACK FL VALVE (6)
4. WHEN DISCHARGING VALVES (4), (5), (7 & 8)
5. WHEN CLEANING O VALVE (1) AND OPEN WHEN USING THE SCR AREA)
6. INSPECT THE SCREEN
7. IF SUBJECT TO FRE DISCHARGE THE PUM
8. REPLENISH STERILIZ

取扱説明書

1. タンク内の汚水の流れ、A
2. 通常、開のバルブは (1), (2)
3. 逆流時、開のバルブは (6)
4. 汚泥引抜き時、開のバルブは (4), (5), (7) 及び (8)
5. 便器や汚水パイプの掃除や酸塩酸を使用する時は、完全にスクリーンは、3ヶ月に1回点検する可能性がある場合は、消毒薬は、1人当たり1ヶ月、

Instruction on Safety
SEWAGE TREATMENT UNIT (SBT TYPE)

Before installing, operating, maintaining and examining equipments, be sure to read and understand this instruction on safety, the instruction manual and all other attached documents, so that you will be able to use the equipments properly. Also, understand well the information on the equipments and their safety and all of the matters that demand special attention. Even the items which are included in the safety mark, "Warning" and "Caution", accidents in certain cases, in any case, all of the instructions are very important. So, please be sure to observe them.

Warning

安全須知

在安裝、運轉、修理、檢查之前，必須首先閱讀注意事項、說明書以及其它附屬的資料后再開始正確使用。在熟悉了以下附屬的資料、情況以及注意事項后方可使用。此使用說明書將安全注意事項分為「注意」兩大標題。

在「注意」標題中所記載的有關事項，應予特別注意。其中，「警告」標題為重要內容，必須加以特別注意。

十二. BOILER 鍋爐



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十二. BOILER 鍋爐



十三. INCINERTOR 焚化爐



十三. INCINERTOR 焚化爐



十三. INCINERTOR 焚化爐



十四. OIL TANK VALVE 油櫃閥



十四. OIL TANK VALVE 油櫃閥





十五. OIL SEPARATOR 油水分離器





十五. OIL SEPARATOR 油水分離器





十五. OIL SEPARATOR 油水分離器



十六. EMERGENCY BILGE SUCTION VALVE

緊急抽艙底水閥



十七. CO2 NOZZLE 二氧化碳噴嘴





簡報完畢
謝謝各位