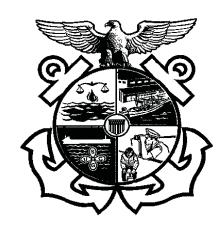
United States Coast Guard



FOREIGN MOBILE OFFSHORE DRILLING UNIT EXAMINER COMPETENCY CODE (FMUE)

Training Aid

Use of Foreign Mobile Offshore Drilling Unit Training Aid:

This is a condensed version of the FMU Examiner Performance and Qualification Standard (PQS) workbook. This Training Aid is intended to be used by Coast Guard Coastal State Examiners and Port State Control Officer trainees during examinations of foreign flagged Mobile Offshore Drilling Units. This Training Aid provides a quick reference for all the steps necessary to complete specific examination tasks listed in the FMUE Job Aid.

This PQS workbook cites SOLAS regulations from the 2009 Consolidated Edition (SOLAS 09). In some cases, the regulations in SOLAS 09 may not apply due to the keel laid date of the vessel. Examiners must pay close attention to the applicability dates of the SOLAS chapters and regulations when conducting exams.

FMUE-FU05 - Endorse certificates .01 Endorse COC MSM II/G.3.A.2.e CG-3585 CG-5437A/B .02 Obtain copy of endorsed certificates MSM II/G.3.N.9 CG-3585 CG-5437A/B .03 Ensure COC is endorsed for correct options MSM II/G.3.N.9 CG-3585

FMUE-FU06 - Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity

CG-5437A/B

(MISLE) Activity	
.01 Update examination results with	MISLE Work Instruction
deficiencies issued on Form B	
.02 Update activity narrative and special notes	MISLE Work Instruction
(as necessary)	
.03 Update details	MISLE Work Instruction
.04 Ensure unfired pressure vessel internal	MSM II/G.3.G.4
exam and relief valve test dates are documented	
in MISLE	
.05 Update documents	MISLE Work Instruction
.06 Change status to "Open-Submitted for	MISLE Work Instruction
Review"	

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Pre-Exam	(PE)
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<u>Pre-Exam (PE)</u>		FMUE-FU02 - Issue deficiencies	
		.01 Identify deficiencies	MSM II/D.1.C.8
FMUE-PE01 - Schedule examination in Maritime In	formation for Safety and Law	.02 Discuss deficiencies and corrective	MSM II/D.2.C
Enforcement (MISLE)	-	measures/timeframe with vessel's master or	
.01 Determine the authority, jurisdiction, and	33 CFR 140.3 & .101(a)	representative	
applicable regulation(s)	33 CFR 143.207	.03 Document deficiencies	MSM II/G.3.N.9
applicable regulation(e)	33 CFR 146.205		CG-3585
.02 Locate vessel	MPS-PR-SEC-04		CG-5437A/B
102 20000 100001	MISLE Work Instruction	.04 Sign forms (examiner & vessel's	MSM II/G.3.N.9
.03 Verify documents are current	MPS-PR-SEC-04	representative)	CG-3585
vomy accuments are current	MSM I/12.G.5	,	CG-5437A/B
.04 Review history (narratives, deficiencies &	MSM I/12.2.a	.05 Issue documents	MSM II/G.3.N.9
special notes)	MPS-PR-SEC-02 & 04	100 loodo documento	CG-3585
special flotes)	MISLE Work Instruction		CG-5437A/B
OF Varify status of upor food	46 CFR 2.10-130		00 040770
.05 Verify status of user fees		EMILE ELIO2 legue control action/a)	
OF Drange folder and required deguments	MSM II/G.3.A.2.a	FMUE-FU03 - Issue control action(s)	MODIL 00/4 7.2
.06 Prepare folder and required documents	46 CFR 2.01-6	.01 Determine if suspension/non-issuance of	MODU 09/1.7.3
	MPS-PR-SEC-04	COC is warranted	MSM II/G.3.L
27	MPS-PR-SEC-07	 	MSM II/G.3.N.9.f
.07 Verify status of Certificate of Financial	33 CFR 138.15(b)	.02 Determine control action	MODU 09/1.7.3
Responsibility (e-COFR)	33 CFR 138.85		MODU 09/1.7.6
	MISLE Work Instruction		OCMI Policy
.08 Generate new activity	MISLE Work Instruction	.03 Determine impact to drilling operations	MODU 09/1.7.6
.09 Verify submittal of Environmental	CG-543 Policy Ltr 11-01		Well/Drilling profile
Protection Agency (EPA) Notice of Intent (NOI)		.04 Evaluate potential well control hazards	MODU 09/1.7.6
.10 Determine Special Inspection Program	MSM I/12.2.a		Well/Drilling profile
(SIP) participation	MPS-PR-SEC-04	.05 Determine appropriate point to interrupt	MODU 09/1.7.6
		drilling operations (when applicable)	Well/Drilling profile
FMUE-PE02 - Coordinate examination with vessel'	s representative	.06 Explain control action(s) to responsible	MODU 09/1.7
.01 Identify vessel's representative	MPS-PR-SEC-02	parties/stakeholders	CG-3585
,	MPS-PR-SEC-04		CG-5437A/B
.02 Confirm vessel arrival time, destination,	33 CFR 146.202	.07 Issue control action(s)	MODU 09/1.7.3
exam based on Advanced Notice of Arrival	33 CFR 146.215		CG-3585
(ANOA)	MPS-PR-SEC-02		CG-5437A/B
.03 Articulate examination expectations	33 CFR 143.207		
7 ii ii o ii a o ii a ii a o ii a	33 CFR 146.205	FMUE-FU04 - Verify deficiency corrections	
	MPS-PR-SEC-02	.01 Verify corrected deficiencies	MSM II/D.1.G.3.f
.04 Verify owner/operator information	MPS-PR-SEC-04	101 Volley Collected delicitation	CG-3585
.05 Verify Classification Society information	MPS-PR-SEC-04		CG-5437A/B
(when applicable)	WII OT IN OLO 04	.02 Clear deficiencies	MSM II/A.2.C.2.d
.06 Confirm MISLE targeting score with	MSM II/D.4	IDE Oldar delibleribles	CG-3585
information attained from vessel representative	MSM II/G.3.N		CG-5437A/B
illioittiation attained from vesser representative	IVISIVI II/G.S.IV	.03 Remove control action (when applicable)	CG-3585
EMUE DEGO. On the town of the control of the contro		.03 Remove control action (when applicable)	CG-5565 CG-5437A/B
FMUE-PE03 - Conduct meeting with vessel's repre	sentative to discuss scope of the	04 Make required notifications (when	
examination	MD0 DD 050 04	.04 Make required notifications (when	OCMI Policy
.01 Review outstanding Conditions of Class	MPS-PR-SEC-04	applicable)	MCM II/A 2 C 2 d
and any third party servicing report discrepancies		.05 Clear deficiencies in MISLE activity	MSM II/A2.C.2.d
.02 Discuss examination procedures and	33 CFR 143.207		MISLE Work Instruction
expectations	33 CFR 146.205		
.03 Review any ongoing operations to include	MPS-PR-SEC-04		
well ops that could affect examination and			
equipment availability with Master/OIM			
.04 Coordinate actual testing procedures	MPS-PR-SEC-04		

FMUE-FU02 - Issue deficiencies

FMUE-ED02 - Evaluate Abandon Ship Drill	
.01 Determine applicability	33 CFR 146.205
	46 CFR 109.213
00 Mitagas abandan ahin drill mesaaduran and	MODU 09/1.2
.02 Witness abandon ship drill procedures and	46 CFR 109.213(d)
crew perform assigned duties	MODU 09/14.12.2 46 CFR 109.213(d)
.03 Witness crew's competency to deploy and launch different lifeboats	MODU 09/14.12.3
.04 Verify crew are proficient on donning	MODU 09/14.12.3 MODU 09/14.12.4.1
lifejackets	WODO 09/14.12.4.1
.05 Witness a debrief of drill	MODU 09/14.12.2
100 Williams a debiler of dilli	IMO Res A.891(21) 1.4.6
.06 † Verify voluntary guidance for number of	77 FR 70172 II(b)
personnel	
.07 † Verify arrangements for helpless person	77 FR 70172 II(b)
on stretcher to board	- (-)
FMUE-ED03 - Evaluate Man Overboard Drill	
.01 † Verify master is aware of Federal	77 FR 70172 II(e)
Register Notice 77 FR 70172	
.02 † Verify man overboard drills are	77 FR 70172 II(e)
conducted	
.03 † Verify recovery procedures are practiced	77 FR 70172 II(e)
.04 Witness launching, operation, and	MODU 09/14.12.5
maneuvering of rescue boat	77 FR 70172 II(e)

Follow Up Actions (FU)

FMUE-FU01 - Verify International Safety Management (ISM) Code						
.01 Determine clear grounds to initiate	IMO Res A.1052(17) 2.4					
expanded exam						
.02 Verify crew familiarity with vessel's Safety	ISM Code 6.1					
Management System (SMS)						
.03 Verify company responsibilities and	ISM Code 3					
authority are clearly defined						
.04 Verify record keeping compliance	ISM Code 11					
.05 Verify maintenance requirements	ISM Code 10					
.06 Verify training requirement with SMS	ISM Code 6.3 & .4					
.07 Review audit documentation and ensure	ISM Code 1.4.6, 9.2					
follow-up actions						
.08 Determine if suspension of drilling OCMI Policy						
operations is required						

.01	Determine applicability	43 USC 1356(c)
		33 CFR 141.5
.02	Review request	33 CFR 141.15
		NVIC 07-84
.03	Prepare LOD	33 CFR 141.15
		NVIC 07-84
.04	Retain a copy and log issued LODs and	5 USC 552 & 552a
secur	e documentation received from	COMDTINST M5260.3
emplo	yers/applicants	COMDTINST M5212.12A
	E-PE05 - Mitigate potential hazards encountere	<u>ed during an exam</u>
.01	Recognize potential hazards encountered	NFPA 306
	g an exam	
	Determine confined spaces onboard	MSM I/CH10
vesse	•	
	Determine if exam scope will require a	29 CFR 1915, Part B
	e Chemist certification for entry into spaces	MSM II/G.1
	Verify Marine Chemist has been scheduled	MSM I/CH10 App. A
	e exam (when applicable)	
	Prepare necessary personal protective	MSM I/CH10 App. A
equip	ment for exam	Quattro Operator's Manual
		MSM I/CH10 App. A
	Review CG policy for when to leave a	MSM I/CH10 App. A
space	due to hazardous condition	

33 CFR 141.15(c) 33 CFR 141.20(f) NVIC 07-84

MODU Code 09/4.13

IMO MSC.1/Circ. 738 Rev.1

2

FMUE-PE04 - Issue Letter of Determination (LOD)(when applicable)

Certificates and Documents (CD)

.06 Verify Dynamic Positioning operator's

certificate(s) is valid

UE-FU01 - Verify International Safety Managem	ent (ISM) Code	FMUE-C	D01 - Review Certificate of Compliance (C	OC)
Determine clear grounds to initiate	IMO Res A.1052(17) 2.4	.01 V	erify compliance option (A, B or C)	33 CFR 143.207
panded exam				33 CFR 146.205
Verify crew familiarity with vessel's Safety	ISM Code 6.1			MSM II/G.3.B
nagement System (SMS)		. 02 V	erify particulars are accurately reflected	CG-3585
Nerify company responsibilities and	ISM Code 3	. 03 V	erify certificate is valid	33 CFR 143.210
hority are clearly defined				46 CFR 2.01-6(a)(3)
Verify record keeping compliance	ISM Code 11			MSM II/G.3.A.2
Note: 15 Verify maintenance requirements	ISM Code 10			
Nerify training requirement with SMS	ISM Code 6.3 & .4	FMUE-C	D02 - Examine Crew Certificates of Compe	etency and Proficiency
77 Review audit documentation and ensure	ISM Code 1.4.6, 9.2	. 01 V	erify original credentials are onboard and	46 CFR 10.205
ow-up actions		valid		STCW I/2.11
Determine if suspension of drilling	OCMI Policy	. 02 V	erify STCW & Flag State endorsements	46 CFR 10.205
erations is required				STCW I/10
		. 03 V	erify Transportation Worker Identification	46 CFR 10.203
		Credenti	al (TWIC) (when applicable)	
		. 04 V	erify required number of Lifeboatmen	33 CFR 146.205
				46 CFR 109.323
				MODU Code 09/14.9.4
			erify letters of determination or certificate	33 CFR 141.15(c)
		of exemp	otion for foreign national(s)	33 CFR 141.20(f)

FMUF	E-CD03 - Examine Code for the Construction	and Equipment of Mobile Offshore	FMUE-CS02 - Examine crane(s)	
	g Units Certificate	and Equipment of Mobile Cheriore		33 CFR 143.207 & 46 CFR
	Determine applicability	33 CFR 146.205		108.601
	Dotomino applicability	MODU Code 09/1.6.7		33 CFR 146.205 & 46 CFR
		MSM II/G.3.A.3		109.521
.02	Verify presence	MODU Code 09/1.6.7		MODU 09/12.1
	Verify validity	MODU Code 09/1.6.7		API RP 2D/App. C
.03	verify validity	WODO Code 09/1.0.7	•	• •
	- 0004 5 : (0	I: (IOM DOO)		46 CFR 108.601(b)(1)
	E-CD04 - Examine copy of Document of Com			MODU 09/12.1.1
.01	Determine applicability	SOLAS 09 IX/2		46 CFR 108.601(b)(2)
		CG-ENG Policy Ltr 02-12		MODU 09/12.1.1
		MSM II/G.3.A.10		46 CFR 109.525
.02	Verify presence	SOLAS 09 IX/4.2		MODU 09/12.1.7
		ISM Code 13.6		API RP 2D/C.4.1.2a
.03	Verify validity	SOLAS 09 IX/5		MODU 09/12.1.8 & .10
		ISM Code 13.2-5		API RP 2D/C.4.1.2b
.04	Verify form	ISM Code 16		API RP 2D/C.4.1.2c
				33 CFR 146.205 (c)
Logs	and Manuals Examination (LM)		4	46 CFR 109.437
_030	\		Į.	API RP 2D/Section 3
FMUF	E-LM01 - Examine Logbook entries			
	Verify pre-arrival/departure checks (when	33 CFR 164.25	Emergency Drills (ED)	
applic		MODU 09/11.10		
аррію	abio)	SOLAS 09 V/26	FMUE-ED01 - Evaluate Fire Drill	
.02	Verify fire and lifesaving training/drills	33 CFR 146.205		33 CFR 146.205
.02	verily life and illesaving training/arilis	46 CFR 109.433(d)	'''	46 CFR 109.213
		MODU 09/14.14.1		MODU 09/1.2
02	Verify EPIRB test(s)			
.03	verily EPIRD lest(s)	46 CFR 109.301(e)(2)		46 CFR 109.213(b)
		MODU 09/14.14.1		MODU 09/14.12.2
0.4	Varify lifeacying aguinment taken out of	SOLAS 09 IV/15.9		46 CFR 109.213(f)(2)
	Verify lifesaving equipment taken out of	46 CFR 109.433(d)		MODU 09/14.9.1 & .2
servic		46 CFR 109.213(h)(1)(iii)		46 CFR 109.213(f)(2)(iv)
.05	Verify sanitary inspections	46 CFR 109.203		MODU 09/14.12.2
		46 CFR 109.433(g)		IMO Res A.891(21)
	V 16	ILO -147 p39/35		MODU 09/14.12.2
.06	Verify marine casualties	46 CFR 109.411		IMO Res A.891(21) 1.4.6
		MODU 09/1.8.1		MODU 09/14.2
		SOLAS 09 I/11(c)	to helideck incidents	MODU 09/14.12
	E-LM02 - Review lifesaving equipment mainte			
.01	Review liferafts records	33 CFR 146.205		
		46 CFR 109.301(b)(1)(vii)		
		MODU 09/10.1.4 & 14.14.2.6		
.02	Review lifeboat records	46 CFR 109.301(b)(1)(vii)		
		MODU 09/14.14.2.6		
		SOLAS 09 III/36.7		
.03	Review rescue boat records (when	46 CFR 109.301(b)(1)(vii)		
applic	· ·	MODU 09/14.14.2.6		
	•	SOLAS 09 III/36.7		
.04	Review davits falls/winch(s) records	46 CFR 109.301(b)(1)(vii)		
	- (-)	MODU 09/14.14.2.6		
		SOLAS 09 III/36.7		

FMUE	E-SW02 - Examine internal watertight bulkhead	ds and doors/closures
.01	Access condition and components	MODU 09/3.6.5
		SOLAS 09 II-I/13-1.1
		ICLL I/12, 17 & 18
.02	Access condition of ventilator closures	MODU 09/3.6.1
		MODU 09/3.6.5 & .6
		ICLL I/19(4)
.03	Verify quick acting type doors local/remote	MODU Code 3.6.5.2
alarm	s (when applicable)	SOLAS 09 II-1/13-1.3
.04	Verify local/remote operation of power	33 CFR 143.207
water	ight door opening/closing controls	46 CFR 174.100
		MODU 09/3.6.5.1 & 3
.05	Verify local/remote operation of audible	MODU Code 3.6.5.2
and vi	sual alarm/indicators	MODU Code 3.6.5.3
		SOLAS 09 II-I/13-1.2 & .3

FMUE-SW03 - Examine external watertight integrity						
.01 Ensure all penetrations are watertight	MODU 09/3.6.1					
	SOLAS 09 II-1/15-1					
.02 Verify down-flooding openings have	MODU 09/3.6.7					
watertight closings	MODU 09/3.7.2					
	ICLL 1/19 & 20					
.03 Evaluate condition of watertight door(s)	MODU 09/3.6.3					
and hatches	ICLL 1/22					

Cargo Systems Examination (CS)

FMUE-CS01	- Fxamine	marine	portable	tanks	(MPT)

.01	Determine applicability	33 CFR 146.205
		46 CFR 109.557
		46 CFR 98.30-5
.02	Verify DOT labeling/placards	46 CFR 109.557
		49 CFR 172.326
.03	Verify additional fire fighting equipment	46 CFR 109.557
		46 CFR 98.30-37
.04	Verify stowage and segregation	46 CFR 109.557
		46 CFR 98.30-9
		49 CFR 171.25(b)(2)
		` , ` ,

FMUE-LM03 - Review records of emergency training and drills

FMUE-LMU3 - Review records of emergency training	ng and drills
.01 Verify crew and industrial personnel	33 CFR 146.205
participated in abandonment drill and fire drills	46 CFR 109.213(c)(2)
	MODU 09/14.12.1
.02 Verify drill includes operating davits used	46 CFR 109.213(d)(1)(vii)
for launching liferafts	MODU 09/14.12.2
	SOLAS 09 III/19.3.3.1.7
.03 Verify different lifeboat(s) are used for	46 CFR 109.213(d)(2)
each drill	MODU 09/14.12.3
	SOLAS 09 III/19.3.2
.04 Verify lifeboats and rescue boats are	46 CFR 109.213(d)(3) & (4)
launched and operated	MODU 09/14.12.5
·	SOLAS 09 III/19.3.3 & 19.3.6
.05 Examine training records for davit-	46 CFR 109.213(g)(5)
launched liferaft	MODU 09/14.13
	SOLAS 09 III/19.4.3
.06 Verify voluntary compliance with	77 FR 70172, Section II(c) - (e)
recommended interim voluntary guidance for	
lifesaving & fire-fighting equipment training & drills	

FMUE-LM04 - Examine liferaft maintenance records and service logs/reports

.01 Examine log for record of inspections and	33 CFR 146.205
maintenance	46 CFR 109.301(b)(1)(vii)
	MODU 09/10.18.2
.02 Examine annual reports	46 CFR 109.301(g)(3)
	MODU 09/10.18.9
	SOLAS 09 III/20.8
.03 Verify periodic examination of launching	46 CFR 109.301(i)
appliances and dynamic testing of winch(s)	MODU 09/10.18.12.1
	SOLAS 09 III/20.11
.04 Verify maintenance of falls	46 CFR 109.301(j)
	MODU 09/10.18.5
	SOLAS 09 III/20.4
.05 Verify periodic examination and	46 CFR 109.301(i)
operational test of release hook(s)	MODU 09/10.18.12.3
	SOLAS 09 III/20.11.3
.06 Verify discrepancies on servicing reports are corrected	MODU 09/9.19.1

30 First Park Processor 30 First Proc	FMUE-LM05 - Examine lifeboat maintenance recor	ds and service logs/reports	FMUE-ES05 - Examine machinery in hazardous ar	<u>eas</u>
maintenance				
MODU 09/10.18.27 MODU 09/10.18.27 MODU 09/10.18.27 MODU 09/10.18.7 MODU 09/10.18.7 MODU 09/10.18.7 MODU 09/10.18.17 MODU 09/10.18.7 MODU 09/10.18.12 MODU 09/10.18.12.1 MODU 09/10.18.12.1 MODU 09/10.18.12.1 MODU 09/10.18.10.18	maintenance	46 CFR 109.301(b)(1)(vii)		
MODU 0987.3 MODU 0987.3 MODU 0987.3 MODU 0987.3 MODU 0987.4			.02 Verify machinery is approved	MODU 09/6.7.1
MODU 09/10.18.7 SOLAS 09 III/20.6	.02 Verify weekly inspection and test		, , , , , ,	
SOLAS 09 III/20.6 46 CFR 109.331(e) SOLAS 09 III/20.7 SOLAS 09 III/20.7 MODU 09/10.18.8 46 CFR 109.331(f) & (i) SOLAS 09 III/20.7 46 CFR 109.31(f) & (i) SOLAS 09 III/20.7 46 CFR 109.31(f) & (i) SOLAS 09 III/20.1 MODU 09/10.18.1 46 CFR 109.31(f) & (i) SOLAS 09 III/20.1 MODU 09/10.18.5 1.0	, , , , , , , , , , , , , , , , , , , ,		.03 Verify fire equipment is approved	
.04 Verify annual inspection and tests of launching appliance(s) and on-load release gear(s) (MDU 09/10.18.2 to 45 CFR 109.301(f) & f) (10.2 to 19.0 to 19.1			ico veinj me equipment is appreved	111020 00/01/11
SOLAS 09 III/20.7	.03 Verify monthly inspection		FMIE-ES06 - Evamine openings, access and vent	ilation conditions in hazardous
MODU 09/10.18.8 46 CFR 109.301(f) & (f) launching appliance(s) and on-load release gear(s) 46 CFR 109.301(f) (2) & (f) MODU 09/10.18.12 46 CFR 109.301(f) (2) & (f) MODU 09/10.18.5 (10.18.12 46 CFR 109.301(f) (2) & (f) MODU 09/10.18.5 (10.18.12.18 2 3.05 Verify periodic overhaul and tests of launching applicance(s), Iali(s), winch(s) and release gear(s) (when applicable) MODU 09/10.18.5 (10.18.12.18 2 3.06 Verify release hook meets IMO revised regulations MODU 09/10.18.5 (10.18.12.18 2 SOLAS 09.11110.15 SOLAS 09.11110.15 SOLAS 09.1110.15 SOLAS 09.1110.15 SOLAS 09.1110.11.3 & 11.2.2 & (f) MODU 09/10.3 & (f) MODU 09/	Too verify mentally ineperator	` ,		nation conditions in nazardous
Job Verify periodic overhaul and tests of launching appliance(s) and no-load release gears(s) Job Verify periodic overhaul and tests of launching appliance(s), fall(s), winch(s) and release gears(s) Job Verify periodic overhaul and tests of launching appliance(s), fall(s), winch(s) and release gears(s) Job Verify periodic overhaul and tests of launching appliance(s), fall(s), winch(s) and control of launching appliance(s), fall(s),				22 CED 142 207
Sunching appliance(s) and on-load release gear(s) MODU 09/10.18.12 MODU 09/10.18.12.18 2.	04 Verify annual inspection and tests of		.01 Determine applicability	
gear(s) MODU 09/10.18.12 d5 Verify periodic overhaul and tests of 46 CFR 109.301(i)(2) & (i) launching appliance(s), fall(s), winch(s) and SOLAS 09 III/20.4; 11.1.3.8.11.2 d5 Verify release gear(s) (when applicable) gregulations 6 Verify release hook meets IMO revised gregulations 7 Verify discrepancies on servicing reports are corrected 8 SOLAS 10-11 III/1.5 LSA Code 4.4.7.6.4 MODU 09/9.19.1.1 LSA Code 4.4.7.6.4 MODU 09/9.19.1.1 MODU 09/9.1				
Job Verify periodic overhaul and tests of a GFR 109.301(i)(2) & (i) alunching appliance(s), fall(s), winch(s) and SOLAS 90 III/20.4; 11.13. & 11.2 and SOLAS 90 III/20.4; 11.4 a			02 Varify arrangement of homerstays area	
Solas Sola				
release gear(s) (when applicable)			openings	
.06 Verify release hook meets IMO revised regulations .07 Verify discrepancies on servicing reports .07 Ac Code 4.4.7.6.4 .08 MODU 09/9.19.1 .09 Verify alarm .08 Verify maintenance plan is onboard and applicable .09 Verify maintenance plan includes systems and applicable .00 Verify maintenance plan includes systems .01 Examine record of inspection and applicable .03 Verify maintenance plan includes systems .04 CFR 109.233 .05 Verify discrepancies on servicing reports .06 Verify maintenance plan includes systems and applicable .07 Verify maintenance plan includes systems .08 Verify maintenance plan includes systems .09 Verify maintenance plan includes systems .00 Verify maintenance plan includes systems .01 Examine record of inspection and servicing IAW .02 Verify discrepancies on servicing reports .03 Verify maintenance plan includes systems .04 CFR 109.233 .05 Verify discrepancies on servicing reports .05 Verify discrepancies on servicing reports .06 Verify discrepancies on servicing reports .07 Examine record of inspection and .08 Verify maintenance and service logs/reports .09 Verify maintenance plan includes systems .09 Levily testing .00 Verify testing .00 Verify testing .00 Verify testing .01 Examine general condition of boundaries .02 Verify alarm .03 Verify location(s) of activation points .00 Verify location(s) of activation points .00 Verify testing .00 Verify testing .01 Verify system(s) operation after .00 Verify testing .01 Verify testing .02 Verify examination.(SW) Structural/Watertight Integrity Examination.(SW) FMUE-LM07 - Examine general condition of ladderways, .04 Verify maintenance plan includes systems .05 Verify maintenance plan includes systems .06 CFR 109.435(a) .07 Verify maintenance plan includes systems .08 Verify maintenance plan includes systems .09 Verify maintenance plan includes systems .09 Verify maintenance plan includes systems .09 Verify maintenance plan includes systems .00 Verify maintenance plan includes systems .01 Examine record of inspection and .02 Verify mainten				
.06 Verify release hook meets IMO revised segulations SOLAS Amended 10/11 Reg III/1.5	release gear(s) (when applicable)		.03 Verify arrangements for ventilation	
regulations SOLAS Amended 10/11 Reg 1.04 Examine condition of boundaries 46 CFR 108.1718, 1.73 47 CFR 108.1718, 1.73 48 CFR 108.1718, 1.73	OF Varify release healt mosts IMO revised			
IIII/1.5				
LSA Code 4.4.7.6.4 MODU 09/9.19.1 Job Verify discrepancies on servicing reports are corrected Job Verify discrepancies on servicing reports are corrected Job Verify maintenance plan is onboard and applicable Job Verify annual inspection and servicing reports Job Verify paninenance plan is onboard and applicable Job Verify discrepancies on servicing reports Job Verify annual inspection and servicing are corrected Job Verify annual inspection and servicing reports Job Verify discrepancies on servicing reports Job Verify d	regulations		.04 Examine condition of boundaries	
.07 Verify discrepancies on servicing reports are corrected ### MODU 09/9.19.1 ### AG CFR 108.171 & .173 ### AG CFR 108.171 & .173 ### AG CFR 108.175 ### MODU 09/9.19.1 ### AG CFR 108.175 ### MODU 09/9.19.4.1 & 14.14.2.5 ### AU Verify maintenance plan is onboard and applicable ### AU Verify discrepancies on servicing reports ### AU Verify maintenance plan is onboard and applicable ### AU Verify discrepancies on servicing reports ### AU Verify maintenance plan is onboard and applicable ### AU Verify maintenance plan is onboard and applicable ### AU Verify maintenance plan is onboard and applicable ### AU Verify maintenance plan includes systems ### AU Verify maintenance plan includes system saintenance ### AU Verify discrepancies on servicing reports ### AU Verify discrepancies on servicing reports ### AU Verify discrepancies on servicing reports ### AU Verify discrepancies				
FMUE-LM06 - Examine fire fighting equipment maintenance and service logs/reports .01 Examine record of inspection and maintenance and Service logs/reports .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems and applicable .04 CFR 109.223 .05 Verify discrepancies on servicing IAW manufacturer's instruction .05 Verify discrepancies on servicing reports are corrected .06 CFR 109.435(a) MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 .06 Verify maintenance plan is onboard and applicable .01 Verify discrepancies on servicing reports are corrected .03 Verify maintenance plan is onboard and maintenance .04 CFR 109.435(a) MODU 09/9.19.4.1 IMO MSC.9/1.2.2.2 A6 CFR 109.435(a) MODU 09/9.19.4.1 IMO MSC.9/1.2.2.2 A6 CFR 109.435(a) MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.2 A6 CFR 109.435(a) MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A6 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A6 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A6 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.4.1 IMO MSC.9/1.2.2.3 A6 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A6 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A6 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.4.1 IMO MSC				
FMUE-LM06 - Examine fire fighting equipment maintenance and service logs/reports .01 Examine record of inspection and maintenance and service logs/reports .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems and appliances .00 Verify annual inspection and servicing IAW .05 Verify discrepancies on servicing reports are corrected .05 Verify discrepancies on servicing reports .06 CFR 109.9435(a) .06 Verify maintenance plan includes systems and appliances .07 Verify discrepancies on servicing reports are corrected .08 Verify contained and .09 Verify examined fire detection system maintenance and service logs/reports .09 Verify maintenance plan includes system .09 Verify maintenance plan includes .00 Verify examined .00 Verify examined .00 Verify examined .00 Verify testing .00	• • •	MODU 09/9.19.1	.05 Verify alarm	46 CFR 108.171 & .173
FMUE-LM06 - Examine fire fighting equipment maintenance and service logs/reports .01 Examine record of inspection and maintenance .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems .04 Verify maintenance plan includes systems .04 Verify annual inspection and servicing IAW .05 Verify discrepancies on servicing reports .05 Verify discrepancies on servicing reports .06 Verify discrepancies on servicing reports .07 Verify maintenance plan includes system .08 Verify discrepancies on servicing reports .09 Verify maintenance plan includes system .00 Verify discrepancies on servicing reports .00 Verify discrepancies on servicing reports .01 Examine record of inspection and .02 Verify discrepancies on servicing reports .03 Verify discrepancies on servicing reports .04 Verify annual inspection and .05 Verify discrepancies on servicing reports .06 Verify discrepancies on servicing reports .07 Examine fire detection system maintenance .08 Verify maintenance .09 Verify maintenance plan includes system .00 Verify maintenance plan includes .00 Verify maintenance .00 Verify main	are corrected			46 CFR 108.175
.01 Examine record of inspection and maintenance maintenance and servicing IAW maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems and applicances .04 Verify annual inspection and servicing IAW monufacturer's instruction .05 Verify discrepancies on servicing reports are recorrected .05 Verify maintenance plan includes system maintenance .05 Verify maintenance plan includes system sand applicable .05 Verify discrepancies on servicing reports are corrected .05 Verify discrepancies on servicing reports and engineering .05 Verify discrepancies on servicing reports are corrected .05 Verify discrepancies on servicing reports and engineering .05 Verify maintenance plan includes system .05 Verify maintenance and service logs/reports .06 Verify maintenance plan is onboard and applicable .05 Verify maintenance plan includes system maintenance and service logs/reports .06 Verify maintenance plan includes system .06 CFR 109.435(a) .07 Verify maintenance plan includes system .08 Verify maintenance plan includes system .09 Verify maintenance plan includes system .00 Verify maintenance .00 Verify maintenance plan includes system .00 Verify maintenance .				MODU 09/6.3
maintenance 46 CFR 109.435(a) MODU 09/9.19.4.1 & 14.14.2.5 MODU 09/9.19.4.2 & 1.00 Verify maintenance plan is onboard and applicable 303 Verify maintenance plan includes systems and applicable 304 Verify annual inspection and servicing IAW manufacturer's instruction 305 Verify discrepancies on servicing reports 305 Verify discrepancies on servicing reports 306 Verify discrepancies on servicing reports 307 Verify discrepancies on servicing reports 308 Verify discrepancies on servicing reports 309 II-2/14.2.2.2 309 II-2/14.2.2.3 300 II-2/14.2.2.3				
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.02 Verify maintenance plan is onboard and applicable	maintenance	46 CFR 109.435(a)	.01 Verify location(s) of activation points	MODU 09/6.5.3
## ADDU 09/9.19.4.2 **OLAS 09 II-2/14.2.2.2 **OLAS 09 II-2/14.2.2.2 **OLAS 09 II-2/14.2.2.2 **OLAS 09 II-2/14.2.2.3		MODU 09/9.19.4.1 & 14.14.2.5	.02 Verify arrangements to prevent inadvertent	MODU 09/6.5.4
applicable .03 Verify maintenance plan includes systems 46 CFR 109.223 .04 Verify annual inspection and servicing IAW annual inspection and servicing reports .05 Verify discrepancies on servicing reports .06 Verify discrepancies on servicing reports .06 Verify discrepancies on servicing reports .07 Examine fire detection system maintenance and service logs/reports .08 Verify maintenance plan is onboard and applicable .09 Verify maintenance plan includes systems .00 Verify maintenance plan includes systems .00 Verify annual inspection and servicing IAW .00 Verify maintenance plan includes system .00 Verify maintenance plan includes system .00 Verify annual inspection and servicing IAW .00 Verify maintenance plan includes system .00 Verify annual inspection and servicing IAW .00 Ver	.02 Verify maintenance plan is onboard and	MODU 09/9.19.4.2		
and appliances MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 .04 Verify annual inspection and servicing IAW manufacturer's instruction MODU 09/9.19.4.1 CG-ENG Policy Ltr 01-14 FMUE-LM07 - Examine fire detection system maintenance and service logs/reports are corrected MODU 09/9.19.4.1 CG-ENG Policy Ltr 01-14 FMUE-LM07 - Examine fire detection system maintenance and service logs/reports 01 Examine record of inspection and maintenance MODU 09/9.19.4.1 & 14.14.2.5 MODU 09/9.19.4.1 & 14.14.2.5 MODU 09/9.19.4.2 SOLAS 09 II-2/14.2.2.2 46 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 46 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 46 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 46 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432	applicable	SOLAS 09 II-2/14.2.2.2	.03 Verify system(s) operation after	MODU 09/6.5.5
and appliances MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 .04 Verify annual inspection and servicing IAW manufacturer's instruction MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.1 CG-ENG Policy Ltr 01-14 MODU 09/9.19.1 CG-ENG Policy Ltr 01-14 Examine record of inspection and maintenance and service logs/reports .01 Examine record of inspection and maintenance plan is onboard and applicable .02 Verify maintenance plan includes system MODU 09/9.19.4.1 SOLAS 09 II-2/14.2.2.2 A6 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A05 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A06 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 A06 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432	.03 Verify maintenance plan includes systems	46 CFR 109.223		
SOLAS 09 II-2/14.2.2.3 .04 Verify annual inspection and servicing IAW manufacturer's instruction MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 .05 Verify discrepancies on servicing reports are corrected MODU 09/9.19.1 CG-ENG Policy Ltr 01-14 FMUE-LM07 - Examine fire detection system maintenance and service logs/reports .01 Examine record of inspection and maintenance and service logs/reports .01 Examine record of inspection and maintenance and service logs/reports .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes system MODU 09/9.19.4.1 & 14.14.2.2.3 .04 Verify annual inspection and servicing IAW with manufacturer's instructions SOLAS 09 II-2/14.2.2.3 MODU 09/9.19.4.1 M	and appliances	MODU 09/9.19.4.3		MODU 09/14.14.2
manufacturer's instruction MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 MODU 09/9.19.1 CG-ENG Policy Ltr 01-14 EMUE-LM07 - Examine fire detection system maintenance and service logs/reports	••	SOLAS 09 II-2/14.2.2.3	ion roung	
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.05 Verify discrepancies on servicing reports are corrected MODU 09/9.19.1 CG-ENG Policy Ltr 01-14 FMUE-LM07 - Examine fire detection system maintenance and service logs/reports .01 Examine record of inspection and maintenance maintenance .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems .04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.1		MODU 09/9.19.4.1	Structural/Watertight integrity Examination	(3W)
.05 Verify discrepancies on servicing reports are corrected MODU 09/9.19.1 CG-ENG Policy Ltr 01-14 FMUE-LM07 - Examine fire detection system maintenance and service logs/reports .01 Examine record of inspection and maintenance maintenance .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems .04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.1		IMO MSC.1/Circ. 1432	ENTIE ONGA E	
are corrected CG-ENG Policy Ltr 01-14 FMUE-LM07 - Examine fire detection system maintenance and service logs/reports .01 Examine record of inspection and and maintenance and service logs/reports .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems with manufacturer's instructions CG-ENG Policy Ltr 01-14 CG-ENG Policy Ltr 01-14 SG-ENG Policy List (sicknarge MARPOL I/15 MARPOL I/15 MSM II/D.1.G.1.b(1) SG-ING Policy Indicatoring Isolated readischarge MSM II/D.1.G.1.b(1) SG-ING Policy Indicatoring Isolated readischarge SG-ING Policy Indicatoring Isolated readischarge SG-ING Policy Indicatoring Isolated readischarge MODU 09/2.1.3 MODU 09/2.1.3 SG-ING Policy Indicatoring Isolated readischarge MODU 09/2.1.3 SG-ING Policy Indicatoring Isolated readischarge MODU 09/2.1.3 SG-ING Policy Indicatoring Isolated readischarge SG-ING Policy Indicatoring Isolated readischarge MODU 09/2.1.3 SG-ING Policy Indicatoring Isolated readischarge MODU 09/2.1.3 SG-ING Policy Indicatoring Isolated readischarge SG-ING Policy Indicatoring Isolated readischarge MODU 09/2.1.3 SG-ING Policy Indicatoring Isolated readischarge MODU 09/2.1.3 SG-ING Policy Indicatoring Isolated Readischarge SG-ING Policy Indicatoring Isolated Readischarge SG-ING Policy Indicatoring Isolated Readischarge MODU 09/2.1.3 ICLL 66 Annex I/1 SG-ING Policy Indicatoring Isolated	.05 Verify discrepancies on servicing reports			
FMUE-LM07 - Examine fire detection system maintenance and service logs/reports .01 Examine record of inspection and maintenance .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems .04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.1				
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.01 Examine record of inspection and maintenance	FMIJE-I M07 - Examine fire detection system maint	tenance and service logs/reports		
maintenance .02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems .04 Verify annual inspection and servicing IAW with manufacturer's instructions 46 CFR 109.435(a) MODU 09/9.19.4.1 & 14.14.2.5 MODU 09/9.19.4.2 SOLAS 09 II-2/14.2.2.2 46 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 A6 CFR 109.223 MODU 09/2.2.3.1.3 MACHING IN Weather tight Closures 33 CFR 143.207 & 46 CFR 108.113 MODU 09/2.1.3 ICLL 66 Annex I/1 33 CFR 143.207 & 46 CFR 108.113 MODU 09/2.2.3.1.3				MSM II/D.1.G.1.b(1)
.02 Verify maintenance plan is onboard and applicable .03 Verify maintenance plan includes systems .04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.1 & 14.14.2.5 MODU 09/9.19.4.2 SOLAS 09 II-2/14.2.2.2 46 CFR 109.223 MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432	·			
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applicable .03 Verify maintenance plan includes systems .04 Verify annual inspection and servicing IAW with manufacturer's instructions SOLAS 09 II-2/14.2.2.2 46 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432 .04 Evaluate Critical Structural Areas 33 CFR 143.207 46 CFR 108.113 MODU 09/2.2.3.1.3 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432	02 Verify maintenance plan is ophoard and			
.03 Verify maintenance plan includes systems				MODU 09/2.1.3
MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 .04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.3 SOLAS 09 II-2/14.2.2.3 46 CFR 109.223 MODU 09/9.2.2.3.1.3 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432				
SOLAS 09 II-2/14.2.2.3 .04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/2.2.3.1.3 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432	.03 Verify maintenance plan includes systems		.04 Evaluate Critical Structural Areas	
.04 Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/2.2.3.1.3 46 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432				46 CFR 108.113
with manufacturer's instructions 46 CFR 109.223 MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432	O4 Marifu appropriate and a serial state.			
IMO MSC.1/Circ. 1432				
	with manufacturer's instructions			
.us verity discrepancies on servicing reports MODU 09/9.19.1	05 \(\(\(\) \)			
are corrected.		MODU 09/9.19.1		

.05 Verify discrepancies on servicing reports are corrected

Electrical Systems Examination (ES)

EMILE ES01 Examina ewitchboards	
.01 Verify openings and accesses in	MODII 00/5 6 3
	MODU 09/5.6.3
switchboard are guarded	MODU 09/5.6.5
	IEC 60529
.02 Verify non-conductive mats or gratings	MODU 09/5.6.5
	IEC 61111
.03 Verify condition of meters, controls, and	MODU 09/5.1.1.3
gauges	
.04 Verify markings	MODU 09/5.6.14
FMUE-ES02 - Examine motor controllers	
.01 Verify condition of enclosure	MODU 09/5.1.1.4
.02 Verify markings	MODU 09/5.6.14
.03 Verify drip-proof/watertight	MODU 09/5.6.21
.00 Verify drip-proof/watertight	IEC 60529
	IEC 00329
FAULT FOOD Francisco controls and alarmos for any	
FMUE-ES03 - Examine controls and alarms for una	attended machinery spaces (when
applicable)	NOD!! 00/0 0 5
.01 Verify administration approved	MODU 09/8.2.5
documentation	
.02 Verify fire detection system alarms	MODU 09/9.10.3.1
.03 Verify engineers' alarm is operational	MODU 09/8.7.1.2
.04 Verify alarm system fail to safety principle	MODU 09/8.7.1.3 & .4
.05 Verify alarm system is continuously	MODU 09/8.7.2
powered	MODU 09/8.7.3
.06 Verify alarms can not be inhibited	MODU 09/8.7.4
.07 Verify any serious malfunction of any	MODU 09/8.9
machinery or boiler operations initiates automatic	
shutdown	
.08 Verify operation of Oil Mist Detection	MODU 09/8.3.7
system	WODO 03/0.0.1
System	
EMILE ESOA Examina alastrical components in he	ozordouo oroo(o)
FMUE-ES04 - Examine electrical components in ha	
.01 † Determine applicability	33 CFR 143.207 & 46 CFR
	108.170
	MODU 09/6.6
	77 FR 71607
.02 Review hazardous location plan	46 CFR 108.171175
	MODU 09/1.2.15
.03 Verify electrical equipment	46 CFR 108.177
	MODU 09/6.6
.04 Verify system integrity	46 CFR 108.177
	MODU 09/6.6
	MODU 09/6.7.3
.05 Verify master is aware of Federal Register	77 FR 71607
Notice (when applicable)†	
.06 † Verify electrical equipment is tested by	MODU 09/6.6
third-party	77 FR 71607
ama party	77 110 7 1007

	-LM08 - Examine gas detection maintenance	and service logs/reports
.01	Examine record of inspection and	33 CFR 146.205
mainte	enance	MODU 09/9.19.4.1
		MODU 09/14.14.2.5
.02	Verify maintenance plan is onboard and	MODU 09/9.19.4.2
applica	able	
.03	Verify maintenance plan includes systems	MODU 09/9.19.1
		MODU 09/9.19.4.3
.04	Verify all zones are being tested	MODU 09/9.11.1
.05	Witness a satisfactory calibration of	MODU 09/9.19.1.2
systen	n(s) (when applicable)	Operations Manual
.06	Verify discrepancies on servicing reports	MODU 09/9.19.1
are co	rrected	
FMUE	-LM09 - Examine crane maintenance and ser	<u>vice logs/reports</u>
.01	Verify installation is approved	33 CFR 143.207
		46 CFR 108.601
		MODU 09/12.1.1
.02	Verify initial load test	33 CFR 146.205
		46 CFR 109.437(b) & API Spec.
		2C/1.6.4
		MODU 09/12.1.5
.03	Verify annual inspection	46 CFR 109.521
		MODU 09/12.1.6
		API RP 2D/4.1.2.5 & 4.2.2
	Verify each rated load test and	46 CFR 109.437(e)
recerti	fication's	MODU 09/12.1.6
		API RP 2D/4.2.3
	Verify if de-rated and load rating chart has	46 CFR 109.521
been r	evised (when applicable)	MODU 09/12.1.4
		API RP 2D/4.5 & API Spec.
		2C/4.2.1.g
.06	Verify manual(s) are available	33 CFR 143.207
		46 CFR 109.437 (b)& API Spec.
		2C/1.6.4
		MODU 09/12.1.10
	Verify crane operator(s) are designated in	46 CFR 109.527
	and qualified	API RP 2D/3.1.2
	Verify discrepancies on servicing reports	46 CFR 109.521
are co	rrected	46 CFR 108.601
		MODU 09 9.19.1
ENTILE	LM40 Everying Unfixed Procesure Vessels (I	ID)(a) and raliafively as
mainte	 -LM10 - Examine Unfired Pressure Vessels (I enance and service logs/reports 	JF vs) and relier valves
.01		33 CFR 143.207
.01	Determine required testing and inspections	MSM II/G.3.G.4
02	Verify UPV tests (when applicable)	46 CFR 61.10-5(i)(2)
.02	verify of vicoto (when applicable)	MODU 09/4.3.4
		MSM II/G.3.G.4
03	Verify UPV five year internal inspection	46 CFR 61.10-5(b)(2)
	applicable)	MODU 09/4.3.1
,	applicable)	MSM II/G.3.G.4
.04	Verify discrepancies on servicing reports	MODU 09/9.19.1
	rrected	
5 00		

FMUE-LM11 - Examine Operations Manual		FMUE-MI08 - Examine main service and propulsion	a concreter(a) and prime mayor(a)
.01 Verify approval	46 CFR 109.121	.01 Examine condition of components	MODU 09/4.1.3
.01 Verily approval	MODU 09/14.1	.01 Examine condition of components	IMO MSC/Circ. 834
	MSM II/G.3.F		
02 Varify harmondays languisms are identified		00 Varify installation of machinemy severe and	Class Society Rules
.02 Verify hazardous locations are identified	46 CFR 109.121	.02 Verify installation of machinery covers and	MODU 09/4.1.3
W "	MODU 09/14.1.2.15	guards	Class Society Rules
.03 Verify manual addresses normal and	46 CFR 109.121	.03 Verify required gauges	MODU 09/2.1.3
emergency activities	MODU Code 14.1.3 & .4		IMO Res A.1021(26)
.04 Verify contents are in English and other	MODU 09/14.1.6		Class Society Rules
language(s) understood by personnel on board	46 CFR 109.121(b)	.04 Verify set point and operation of over	MODU 09/2.1.3 & 4.3.7
	MSM II/G.3.F	speed shut-down	IMO Res A.1021(26)
.05 Verify stability calculations contained in	NVIC 03-88 Ch-1 Section 6		Class Society Rules
manual are approved (stamp/letter)	MODU 09/14.1.2 .9, .10 & .16	.05 Verify set point and operation of lube oil	MODU 09/2.1.3 & 4.3.7
, ,	46 CFR 109.121(a)	shut-down	IMO Res A.1021(26)
.06 Verify changes affecting lightship data are	33 CFR 143.207 & 46 CFR		Class Society Rules
maintained in lightship data alterations log	108.301	.06 Verify set point and operation of high	MODU 09/2.1.3 & 4.3.7
mamamod in lighterilp data diterations reg	46 CFR 109.227(a) & 170.110	jacket water temperature alarm	IMO Res A.1021(26)
	MODU 09/3.1.3 & .4 & 14.1.2.9	jacket water temperature alarm	Class Society Rules
.07 Examine alternative stability criteria	46 CFR 109.121(b)(5)	.07 Verify operation of reverse power relays	MODU 09/5.3.7.2
accepted by Flag State (when applicable)	MODU 09/3.3.3	.07 Verify operation of reverse power relays	Class Society Rules
accepted by Flag State (when applicable)		OO Marifu managaluman ta buing was al into	
OO Verify Demonis Desiring and according to	MSM II/G.3.E	.08 Verify procedures to bring vessel into	MODU 09/4.3.9
.08 Verify Dynamic Positioning operational	MODU 09/14.1.3.13	operation from a dead ship condition	
requirements	DP Ops Guidance 1/4.7	.09 Verify manual override activation indicators	MODU 09/4.6.2
	IMO MSC/Circ. 645		
	(EED)	FMUE-MI09 - Examine emergency generator(s) an	
FMUE-LM12 - Examine Emergency Evacuation Pl		.01 Determine requirement	MODU 09/5.4
.01 Determine applicability	33 CFR 146.201	.02 Examine condition of components	MODU 09/4.1.3
	33 CFR 146.210		IMO MSC/Circ. 834
.02 Verify approval letter is on board	33 CFR 146.210(a)		Class Society Rules
	33 CFR 146.140(b)	.03 Verify installation of machinery covers and	MODU 09/4.1.3
.03 Verify content	33 CFR 146.140(d)(1)	guards	IMO MSC/Circ. 834
	MSM II/G.3.K	.04 Verify two starting resources	MODU 09/5.5.2
.04 Verify revision pages for changes	33 CFR 146.140(d)(3)	.05 Verify operation of auto-start function	MODU 09/5.4.8
.05 Verify EEP is applicable to unit's current	33 CFR 146.140(a)	.06 Verify required gauges	MODU 09/2.1.3
location and reflects on site conditions	00 01 11 1 10.1 10(a)	100 Tomy required gauges	IMO Res A.1021(26)
location and reneets on one conditions		.07 Verify operation of remote fuel shutoff	MODU 09/9.15.3
FMUE-LM13 - Examine construction (booklet) port	efolio.	valve	WODO 09/9.13.3
		.08 Verify set point and operation of over	MODU 09/2.1.3 & 4.3.7
.01 Verify presence of copy	33 CFR 143.207 & 46 CFR		
	108.113	speed shut-down	IMO Res A.1021(26)
	MODU 09/2.13		Class Society Rules
	ABS Rules 7.1.2.25	.09 Verify set point and operation of lube oil	MODU 09/2.1.3 & 4.3.7
.02 Verify reviewed and endorsed by class	46 CFR 108.113	shut-down	Class Society Rules
	ABS Rules 7.1.2.25	.10 Verify set point and operation of high	MODU 09/2.1.3 & 4.3.7
.03 Verify content	46 CFR 108.113	jacket water temperature alarm	IMO Res A.1021(26)
	MODU 09/2.13	·	Class Society Rules
	ABS Rules 7.1.2.25(i)-(iv)		•

FMUE-MI04 - Examine ballast pumps installation,	piping and valves on ship-shaped	FMUE-LM14 - Examine Oil Record Book Part II (Ol	RB) (when applicable)	
hulls	-	.01 Determine applicability MARPOL I/36		
.01 Determine applicability	MODU 09/14.1.2	.02 Verify operation entries	MARPOL I/36.2	
.02 Verify contents of Loading and Unloading	SOLAS 09 VI/7.2.2	.03 Verify each completed operation and page	MARPOL I/36.5	
Booklet	SOLAS 09 VI/7.7	is signed	100 11 11 11 11 11 11 11 11 11 11 11 11	
.03 Verify material condition of equipment	SOLAS 09 II-I/35-1.2.4	.04 Verify failures of oil discharge monitoring	MARPOL I/36.6	
.00 Verily material condition of equipment	30LA3 09 11-1/33-1.2.4	•	WART OL 1/30.0	
EMILE MIDE - Everying cil/fuel convice and transfer	ovetem(a)	system		
FMUE-MI05 - Examine oil/fuel service and transfer		D. L. (Na. ' (' E' (' (DN)		
.01 Verify condition	MODU 09/4.8.4	Bridge/Navigation Examination (BN)		
	MODU 09/4.8.6			
.02 Verify arrangement of system(s)	MODU 09/4.8.13	FMUE-BN01 - Examine propulsion and operational	mode indicators	
	MODU 09/4.8.6	.01 Verify propeller indicator(s)	33 CFR 164.25	
.03 Verify condition of tank vent(s)	MODU 09/4.8.5		MODU 09/7.4.2.8	
.04 Verify arrangement of pressurized fuel	MODU 09/4.8.7	.02 Verify control station indicator(s)	33 CFR 164.25	
piping	MODU 09/8.3.1	(,)	MODU 09/7.2.5	
.05 Verify means to prevent overflow spillage	MODU 09/8.3.2		111020 0071.2.0	
.06 Verify high temperature alarm (when	MODU 09/8.3.3	FMUE-BN02 - Verify operations of communication	aquinment	
applicable)			MODU 09/11.6	
.07 Witness test of remote operated valve(s)	MODU 09/9.15.3	.01 Verify helicopter communication		
Tel Trialogo toot of formatio application valve(o)	WODG 00/0.10.0	.02 Verify radio equipment compliance with of	MODU 09/11.5	
FMUE-MI06 - Examine Unfired Pressure Vessels (LID\/a\	SOLAS (when engaged in drilling operations)	SOLAS 09 IV/7-11	
.01 Determine applicability	MSM II/G.3.G.4	FMUE-BN03 - Examine sound reception system or	n totally enclosed bridge	
00 1/ 1/	MOA OCS-08 Annex 1/22.J	.01 Determine applicability	MODU 09/11.10.1	
.02 Verify arrangement of Pressure Relief	MODU 09/4.3.4		SOLAS 09 V/19.2.1.8	
Valve(s) (PRV)	MODU 09/4.7.1	.02 Verify enclosed bridge sound reception	MODU 09/11.5.3	
.03 Verify marking(s) of PRV	MSM II/G.3.G.4	system or other means	SOLAS 09 V/19.2.1.8	
.04 Verify arrangement of UPV	MODU 09/4.3.2	.03 Witness operation	MODU 09/11.5.3	
	MSM II/G.3.G.4	To This of Sportanon	SOLAS 09 V/19.2.1.8	
.05 Verify marking(s) of UPV	MODU 09/4.3.1		002/10/00 1/10/2:1:0	
	MSM II/G.3.G.4	FMUE-BN04 - Witness operational test of steering	000 F	
.06 Examine external condition of UPV	MSM II/G.3.G.4			
		.01 Witness operational test of steering gear	MODU 09/1.6.2.2	
FMUE-MI07 - Examine steering gear assembly and	d operation	controls	MODU 09/7.5.3	
.01 Examine condition of steering gear system	MODU 09/1.6.2.2		MODU 09/7.5.10	
.02 Verify automatic start after power failure	MODU 09/7.5.5	.02 Verify rudder angle indicator accuracy	MODU 09/7.5.15	
.03 Verify accuracy of rudder angle indicator		.03 Verify operation of loss of power alarm	MODU 09/7.5.5	
	MODU 09/7.5.16	.04 Verify motor overload and phase failure	MODU 09/7.6.3	
.04 Verify non-conventional rudder	MODU 09/7.5.18	audible and visual alarms		
arrangements (thrusters)	110011 00/7 0 4			
.05 Verify running indication for motors	MODU 09/7.6.1	FMUE-BN05 - Examine internal communications		
.06 Verify operation of means of	MODU 09/7.5.14	.01 Verify means of communication with	MODU 09/11.7	
communications		control room	MODU 09/7.7	
.07 Witness functional system tests	MODU 09/7.5.3	.02 Verify means of communication with	MODU 09/7.5.14	
	MODU 09/7.5.7	· · · · · · · · · · · · · · · · · · ·	WODO 09/7.5.14	
		steering gear compartment	MODIL 00/5 7 5	
		.03 Verify means of communication with all	MODU 09/5.7.5	
		spaces requiring action in case of an emergency		
		FMUE-BN06 - Examine anchor(s) and chain		
		.01 Verify condition of anchor(s)	MODIL 00/4 42	
		.or verily condition of anchor(s)	MODU 09/4.12	
			ILO -147 3(g)	
		00 1/ 1/ 1/2 / 1/3 / 1/3	Class Society Rules	
		.02 Verify condition of visible anchor chain	MODU 09/4.12	
			ILO -147 3(g)	

FMUE-BN07 - Examine hull for required markings		Machinery Equipment Examination (MI)	
.01 Verify Load Line is permanently marked	MODU 09/3.7.1	machinery Equipment Examination (mi)	
,, p,,	ICLL 5-9	FMUE-MI01 - Examine bilge pumps installation, pig	sing and valves
	MSM II/G.3.A.4	.01 Examine bilge system components	MODU 09/4.9.1
.02 Verify presence of deck line	ICLL 4	2 Examine singe dystem compension	MODU 09/4.9.3
.03 Verify IMO number	SOLAS 09 XI-1/3	.02 Verify system arrangement(s) including	MODU 09/4.9.1
.04 Verify draught (draft) marks	SOLAS 09 II-1/5.6	flood protection	MODU 09/4.9.8.1
, , ,		nood proteotion	MODU 09/4.11
FMUE-BN08 - Examine hull, anchors and anchor of	hain for compliance with the Non-	.03 Verify valve indicators	MODU 09/4.9.6
Indigenous Aquatic Nuisance Species Act	<u> </u>	Total	MODU 09/3.6.2
.01 Verify hull/anchor is free of organisms and	MODU 09/2.11	.04 Witness operation of alarms	MODU 09/8.4
sediment	MODU 09/2.16	101 Williams operation of alarmo	Me26 66,6.1
	MSM II/D.1.G.1.t	FMUE-MI02 - Examine arrangements for propulsion	n engine(s)
.02 Evaluate condition of hull anti fouling	MODU 09/2.11	.01 Examine condition of components	MODU 09/4.1.3
coating	AFS Convention	201 Examine contained of compensation	IMO MSC/Circ. 834
			Class Society Rules
General Health & Safety Examination (GH)		.02 Verify machinery covers and guards	MODU 09/4.1.1 & .3
Contract Troutin & Caroty Examination (OTI)		102 Volliy Machinery bovers and guards	Class Society Rules
FMUE-GH01 - Examine accommodations		.03 Verify required gauges	MODU 09/2.1.3
.01 Verify berth arrangement and size	46 CFR 108.199	100 Tolliy loquilou guugoo	IMO Res A.1021(26)
.or verily bertir arrangement and size	46 CFR 108.201		Class Society Rules
	46 CFR 108.2031	.04 Verify set point and operation of over	MODU 09/2.1.3 & 4.3.3 & .7
.02 Verify means of escape	46 CFR 108.151	speed shut-down	IMO Res A.1021(26)
102 Verify means of escape	46 CFR 108.153	opoda snar domi	Class Society Rules
	MODU 09/9.4	.05 Verify set point and operation of lube oil	MODU 09/2.1.3 & 4.3.3 & .7
.03 Verify ventilation	33 CFR 143.207	shut-down	IMO Res A.1021(26)
romy vondication	46 CFR 108.213		Class Society Rules
.04 Verify housekeeping practices	33 CFR 146.205	.06 Verify set point and operation of high	MODU 09/2.1.3
101 Tolly housekeeping practices	46 CFR 109.203	jacket water temperature alarm	IMO Res A.1021(26)
	10 01 11 100.200	, , ,	Class Society Rules
FMUE-GH02 - Examine galley		.07 Verify procedures to bring vessel into	MODU 09/4.3.9
.01 Verify sanitary conditions	46 CFR 109.203	operation from a dead ship condition	IMO MSC/Circ. 834
.02 Verify condition of vents and ducts	MODU 09/9.3.15 & .19	.08 Verify manual override activation indicators	MODU 09/4.6.2
.03 Verify condition of galley window closures	MODU 09/9.3.22	·	IMO Res A.1021(26)
.04 Verify galley/adjacent spaces meet	MODU 09/Table 9-1		
structural fire protection requirements	Mese co, rable c 1	FMUE-MI03 - Examine ballast pumps installation, p	piping, and valves Column
		Stabilized Units	
FMUE-GH03 - Examine personal protective equipm	nent and procedures	.01 Determine applicability	MODU 09/1.2
.01 Verify personal (eye, head, and face)	33 CFR 142.27	,	MODU 09/4.10
protection is available	00 01 11 12.27	.02 Verify pump local/remote arrangement(s)	MODU 09/4.10.3
.02 Verify condition of work space	33 CFR 142.84		MODU 09/4.10.11 &.12
.03 Verify foot protection	33 CFR 142.33	.03 Verify emergency power requirements	MODU 09/4.10.6
.04 Verify protective clothing	33 CFR 142.36		MODU 09/5.4.6.7
.05 Verify safety belt or harness are available	33 CFR 142.42	.04 Verify local/remote valve operation	MODU 09/4.10.13
.06 Verify respiratory protection equipment	33 CFR 142.90	.05 Verify piping material and condition	MODU 09/4.10.7
available			Class Society Rules
.07 Verify personnel working in locations over	33 CFR 142.45	.06 Verify Ballast Control Station Arrangement	MODU 09/4.10.10
water are wearing personal floatation device	-	.07 Verify marking(s) components	MODU 09/4.10.8
.08 Verify eyewash equipment is available	33 CFR 142.48		MODU 09/4.10.17
.09 Verify personnel protection for openings in	33 CFR 142.87	.08 Verify tank level indicator(s) and draft	MODU 09/4.10.14
decks		reading operation	MODU 09/4.10.15
.10 Verify lock out/tag out is being utilized	33 CFR 142.90	.09 Verify means of communication	MODU 09/4.10.19

Helo	Deck	Examination	(HD)
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	-HD01 - Examine helideck	MODII 00/40 5 00
	Examine helicopter deck lights operation	MODU 09/13.5.20
and ar	rangement	MODU 09/13.5.23-26
		MSM II/G.3.G.10
	Examine periphery netting arrangement	MODU 09/13.4.2
	ondition	
.03	Verify deck markings	MODU 09/13.5.5
		MODU 09/13.5.6-7
		MODU 09/13.5.18
	Verify deck is free of obstructions	MODU 09/13.5.15
.05	Verify main and emergency personnel	MODU 09/13.4.3
	s route	
	Verify structural fire protection	MODU 09/9.16.2
	ements	MODU 09/9.3
	Verify wind indicator	MODU 09/13.5.1
	Verify skid-resistance surface	MODU 09/13.3.4
.09	Verify operation of H2S warning light	MODU 09/13.5.26
	-HD02 - Examine helideck fire fighting system	<u>s</u>
	Verify dry powder extinguishers	MODU 09/9.16.4.1
	Verify CO2 extinguishers	MODU 09/9.16.4.2
	Verify foam is appropriate type	MODU 09/9.16.4.4
.04	Verify CO2 extinguishers	MODU 09/9.16.4.3
.05	Verify additional fire-fighting outfits	MODU 09/9.16.4.6
	Verify additional equipment required	MODU 09/9.16.4.7
.07	Verify arrangements for drainage	MODU 09/9.16.5
FMUE	-HD03 - Examine refueling station	
.01	Inspect portable fuel storage tank(s)	46 CFR 109.557
		MODU 09/9.16.6.4
.02	Verify tank(s) are remote as practical	MODU 09/9.16.6.1
.03	Verify tank(s) are isolated from ignition	MODU 09/9.16.6.1
source	e(s)	
	Verify tank area(s) have containment	MODU 09/9.16.6.2
.05	Verify emergency shutdown(s)	MODU 09/9.16.6.5
.06	Verify pump has running indicator light	MODU 09/9.16.6.7
.07	Verify unit is outfitted with grounding	MODU 09/9.16.6.9
device		
.08	Verify pumping unit over pressurization	MODU 09/9.16.6.8
device		
.09	Verify signs posted	MODU 09/9.16.6.10
	·	

FMUE	-GH04 - Examine hospital space	
	Determine applicability	33 CFR 146.205
.0.	Dotomino applicability	33 CFR 143.207
.02	Verify sanitary conditions	33 CFR 146.205
.02	voliny durintary derivations	46 CFR 109.203
.03	Verify adequate number of berths	33 CFR 143.207
.00	verify adequate number of bertilo	46 CFR 108.209
04	Verify hot and cold water	33 CFR 143.207
.04	verily flot and cold water	46 CFR 108.205(i)
OF	Ensure excess materials not stored	33 CFR 143.207
.03	Ensure excess materials not stored	46 CFR 108.209
06	Verify water closet and bathroom	33 CFR 143.207
.00	verily water closet and battiroom	
		46 CFR 108.205(i)
	-GH05 - Examine arrangements in machinery	
	Verify operation of ventilation closures	MODU 09/9.15.1
	Verify remote shutdowns	MODU 09/9.15.2
.03	Verify fuel tank(s) shutoff valve operation	MODU 09/9.15.3
	Verify communications with navigating	MODU 09/7.7
bridge	•	
	-GH06 - Examine storage of gas cylinders	
.01	Verify permanent piping for oxyacetylene	MODU 09/9.17.1.1
installa	ation (when applicable)	
.02	Examine gas cylinder storeroom(s) (when	MODU 09/9.17.1.2
applic	able)	MODU 09/9.17.1.3
	Verify storage of cylinders	MODU 09/9.17.1.2
	, , ,	MODU 09/9.17.1.6
.04	Verify process for removal of gas cylinders	MODU 09/9.17.1.4
.05	Verify warning signs	MODU 09/9.17.1.5
FMUE	-GH07 - Examine hydrogen sulphide (sulfide)	detection and alarm system
	Verify areas monitored	MODU 09/9.12.1
.02	Verify operation of audible and visual	MODU 09/9.12.1
indica		
.03	Verify sufficient portable gas detectors	MODU 09/9.12.2
	, ,	
FMUE	-GH08 - Examine means of escape	
.01	Verify means of escape and confirm	MODU 09/9.4.1.3
acces		
	Verify emergency escape lighting	MODU 09/5.4.6.1
	gements	
.03	Verify escape route is marked and	MODU 09/9.4.1.4
illumin		
	Verify arrangement of machinery space	MODU 09/9.4.2
	e ladders	
	Verify Emergency Escape Breathing	MODU 09/9.6
	es (EEBDs) in escape routes	111000 00/0.0
06	Verify EEBDs are in serviceable condition	MODU 09/9.6
.00	ton, 22300 are in conviccable condition	FSS Code 3.2.2
		1 00 00de 0.2.2

FMUE-GH09 - Avoid inadvertent entry into a confined space				
.01 Determine confined space(s)	29 CFR 1915, Part B			
	MSM I/10 MSM I/10 App. A			
.02 Evaluate potential hazards	MSM I/10 App. A, C & G			
.03 Mitigate potential hazards	MSM II/G.1.J 29 CFR 1915, Part B			
gato potential nazaras	MSM II/G.1.J			
	MSM I/10			
Lifesaving Equipment Examination (LS)				
FMUE-LS01 - Examine general emergency system	ns			
.01 Verify alarm activation points	MODU 09/5.7.2			
.02 Verify operational test of audible and visual	MODU 09/5.7.2			
general alarm signals	IMO Res A.1021(26)			
.03 Verify connection to emergency power	MODU 09/5.4.6.4.1			
.04 Verify public address system is audible	MODU 09/5.7.3			
.05 Verify general alarm system tests	MODU 09/10.18.7.4			
ise verify general alaim system tests				
FMUE-LS02 - Examine rescue boat				
.01 Determine applicability	33 CFR 140.101			
	MODU 09/10.8-10.10			
.02 Verify embarkation and launching	NVIC 03-88 Ch-1 MODU 09/10.10			
arrangement	MODO 09/10.10			
.03 Verify stowage	MODU 09/10.9			
.04 † Verify dedicated rescue boat is provided	77 FR 70172			
.05 † Verify master is aware of 77 FR 70172	77 FR 70172 II(d)			
.06 Verify operating instructions are posted in	MODU 09/10.17			
the vicinity	77 FR 70172 II(d)			
.07 Witness operation of engine	MODU 09/10.18.7.2			
FMUE-LS03 - Examine muster and embarkation st	ations			
.01 Determine applicability	MODU 09/10.4			
.02 Examine muster and embarkation stations	MODU 09/10.4.1,.2,.5 &.6			
arrangements.03 Verify embarkation ladders meet	MODU 09/10.4.7 & .8			
requirements	WODO 09/10.4.7 & .0			
.04 Verify emergency lighting configuration	MODU 09/5.4.6.1			
and operation	MODU 09/10.4.3 & .7			
	MODU 09/10.7.6			
.05 Verify emergency lighting testing	46 CFR 109.213(d)(6)			
requirements	MODU 09/14.12.2			
FMUE-LS04 - Examine fixed metal ladders				
.01 Verify locations and accessibility to	MODU 09/10.4.7			
waterline				
.02 Verify ladders and sea areas are	MODU 09/10.4.7			
illuminated by emergency lighting				
.03 Verify alternative means of escape to MODU 09/10.4.8				
waterline (if fixed ladders are not installed)				

FMUE-DP03 - Examine DP's thruster system(s)	
.01 Conduct meeting on test procedures	Approved DP FMEA Approved DP FMEA Proving Trials 77 FR 26562
.02 Verify system meets stated classification	MODU 09/4.13 IMO MSC/Circ. 645 2.2 Approved DP FMEA
.03 Confirm thrusters are station keeping IAW WSOG	IMO MSC/Circ. 645 3.3.1
.04 Witness standby thruster automatically comes on line	IMO MSC/Circ. 645 3.3.2
.05 Verify thruster(s) not in operation are at zero pitch and speed	IMO MSC/Circ. 645 3.3.4
.06 Verify manual thruster controls	MODU 09/4.13 IMO MSC/Circ. 645 3.4.1.7
FMUE-DP04 - Examine DP's control systems	
.01 Conduct meeting on test procedures	Approved DP FMEA Approved DP FMEA Proving Trials 77 FR 26562
.02 Witness automatic transfer of operational	Approved DP FMEA
control to redundant control system .03 Verify audible and visual alarms	IMO MSC/Circ. 645 3.1.4 MODU 09/4.13 Approved DP FMEA IMO MSC/Circ. 645 3.4.1.5
.04 Review alarms records	MODU 09/4.13 Approved DP FMEA IMO MSC/Circ. 645 3.4.1.5
.05 Verify arrangements to prevent failures	MODU 09/4.13
from transferring from one system to another	IMO MSC/Circ. 645 3.4.2.5 IMO MSC/Circ. 645 3.4.1.6
.06 Verify operation of unintreptive power supply	MODU 09/4.13 Approved DP FMEA IMO MSC/Circ. 645 3.4.2.7
.07 Determine vessel position reference systems and sensors	MODU 09/4.13 IMO MSC/Circ. 645 3.4.3-3.4.4 MTS DP Ops Guide 2/App 1.
00 Witness energtion of less of position	MODIL 00/4 12

.08 Witness operation of loss of position reference system and sensor alarms

MODU 09/4.13 IMO MSC/Circ. 645 3.4.3-3.4.4

Dynamic Positioning Examination (DP)

bynamic r ositioning Examination (br)			Verify type approval	33 CFR 140.101(e)
EMUE DB01 Examine energtional canabilities of	Dynamia Positioning (DD) systems	.01	vomy typo approvai	46 CFR 108.525/530/540
FMUE-DP01 - Examine operational capabilities of.01 Determine equipment class	- · · · · · · · · · · · · · · · · · · ·			MODU 09/10.3.2-6
.01 Determine equipment class	MODU 09/4.13 & IMO MSC/Circ.	02	Verify liferaft capacity requirements	MODU 09/10.3.2, .3, .5, .6
	645 2.2		Verify stowage	MODU 09/10.6
	77 FR 26562	.00	verify stowage	MODU 09/10.3.3, 10.5, 10.4.6
	MTS DP Ops Guide 2/App 1. 4.1			MODU 09/10.5, 10.4.6
.02 Verify master is aware of voluntary	77 FR 26562	0.4	Evaluate launching arrangements	
guidance		.04	Evaluate launching arrangements	33 CFR 140.101(e)
.03 Verify Well Specific Operating Guidelines	MTS DP Ops Guide 2/App 1. 4.8			46 CFR 109.213(d)(vii)
(WSOGs)	& 4.11		N	MODU 09/10.6.2, .6 & .7
	CG-5PC Policy Ltr		Verify launching illustration and	MODU 09/10.17
.04 Verify System's Critical Activity Mode of	MTS DP Ops Guide 2/App 1. 4.8	instruc	ctions posted	
Operation (CAMO)				
.05 Verify records of DP incidents	MTS DP Ops Guide 2/App 1.	<u>FMUE</u>	E-LS06 - Examine lifeboats	
,	3.2, Table A, Item 10	.01	Determine applicability	MODU 09/10.3.1
	MTS DP Ops Guide 2/App 1.		,	LSA Code 4.6
	4.11			77 FR 70172 II(b)
.06 Verify presence of DP operating manual	MTS DP Ops Guide 2/App 1. 4.7	.02	Verify fire protection components and	MODU 09/10.5
verify processes of 21 operating manual	IMO MSC/Circ. 645 4	opera		MODU 09/10.18.1
	MODU 09/14.1.3.13	орога		LSA Code 4.8 & .9
.07 Verify initial, periodic and annual survey(s)		03	Examine release gear(s)	MODU 09/10.7.1
verify iriliar, periodic and armual survey(s)	MTS DP Ops Guide 2/App 1. 4.2	.03	Examine release gear(s)	LSA Code 8
OO Marife tasts offen and differentians and asset	IMO MSC/Circ. 645 5.1			
.08 Verify tests after modifications and non-	MTS DP Ops Guide 2/App 1. 4.2	0.4	Varify instructions inside for release man	IMO MSC.1/Circ. 1206/Rev.1
conformities	IMO MSC/Circ. 645 5.1.1.4	.04	Verify instructions inside for release gear	MODU 09/10.17
.09 Verify Class Approved Failure Modes and	MTS DP Ops Guide 2/App 1. 4.2	0.5	V '' '	LSA Code 4.7.6
Effects Analysis (FMEA)	77 FR 26562	.05	Verify type approval	MODU 09/10.3.1
				MODU 09/10.3.4
FMUE-DP02 - Examine DP's power management				LSA Code 4.8
.01 Conduct meeting on test procedures	Approved DP FMEA	.06	Verify stowage	MODU 09/10.6
	Approved DP FMEA Proving			46 CFR 109.301(f)
	Trials	.07	Verify required equipment is present	MODU 09/10.6.1.4
	77 FR 26562			LSA Code 4.4.8
.02 Verify power available in accordance with	IMO MSC/Circ. 645 3.2.5			MODU 09/10.18.6
WSOG and CAMO modes	MTS DP Ops Guide 2/App 1. 4.8	.08	† Determine rated capacity from data plate	77 FR 70172 II(b)
.03 Witness bus-tie breakers separate	MODU 09/4.13	.09	Verify instructions inside for release gear	MODU 09/10.17
automatically and standby generator comes on	Approved DP FMEA	.10	Witness operation of engine	MODU 09/14.12.4
line (when not latched up)	IMO MSC/Circ. 645 3.2.3 & .4		,	
.04 Verify system meets stated classification	MODU 09/4.3	FMUE	E-LS07 - Examine boat davits	
.04 Verily System meets stated classification	IMO MSC/Circ. 645 3.2		Examine condition of davit(s) and	MODU 09/10.18.1
	11VIO 1VISC/CITC. 043 3.2		iated components	SOLAS 09 III/20.2
		4,0000	iatoa componente	LSA Code 8
		02	Verify survival craft launching arrangement	MODU 09/10.17
			lumn stabilized or self-elevating unit	
		Verify operator has unobstructed view	MODU 09/10.7.5	
			g launching and recovery operations	MODU 09/10.7.3 MODU 09/10.7.2
			Verify falls are of adequate length for	MODU 09/10.7.5
		surviv	al craft to reach water	

FMUE-LS05 - Examine inflatable liferafts and davit launched arrangements

Firefighting Systems Examination (FF)

FMUE-FF01 - Examine areas for compliance with Structural Fire Protection (SFP) requirements				
	Determine applicability	33 CFR 143.207 46 CFR 108.131 MODU 09/9.2		
.02	Determine fire protection needed	46 CFR 108.133143 MODU 09/9-1 Table		
.03 plan	Verify SFP boundaries with fire control	46 CFR 108.131 MODU 09/9.2 SOLAS 09 II-2/9.2.3		
.04	Ensure no unapproved SFP modifications	46 CFR 108.131 MODU 09/9.2 SOLAS 09 II-2/5.3		
.05	Evaluate fire door(s) operation	46 CFR 108.133 MODU 09/9.2.9 & 9.2.10 IMO Res A.687(17)		
	Verify multi-cable transits (MCT's) are atible with fire boundary	46 CFR 108.131 MODU 09/9.2.4 MODU 09/9.3.13		
with fin	Verify ventilation closures are compatible re boundary Verify pipes/standoffs are compatible with	46 CFR 108.131 MODU 09/9.3.13 46 CFR 108.131		
	undary	MODU 09/9.2.4 MODU 09/9.3.13		
modifi	Verify no unapproved space cation(s) that would affect space prization	46 CFR 108.131 MODU 09/9.1 MODU 09/9.2.5		
FMUE	-FF02 - Examine fixed fire detection and alarn	n system		
	Verify operation	MODU 09/9.5 FSS Code 9.2.1.4 FSS Code 9.2.3.1.2 & .3		
	Verify power sources Verify operation of alarms	MODU 09/9.5 FSS Code 9.2.2 MODU 09/ 9.5 FSS Code 9.2.5.1		
		IMO Res A.1021(26)		
FMUE-FF03 - Examine flammable gas and alarm system(s)				
	Verify areas monitored Verify operation of audible and visual	MODU 09/9.11.1 MODU 09/9.11.1		
	Verify sufficient portable gas detectors	MODU 09/9.11.2		

FMUE-FF04 - Examine apparatus for recharging air cylinders					
.01 Verify compressor is located in suitable location	MODU 09/ 9.14.2 & .6				
.02 Verify compressor's emergency power	MODU 09/9.14.1				
source					
.03 Verify air intake location and filtration	MODU 09/9.14.3 MODU 09/9.14.4				
.04 Verify recharging capacity	MODU 09/9.14.5				
FALLE FEOF Examina fire main exaters (a)					
.01 Determine applicability	33 CFR 143.207				
.01 Determine applicability	46 CFR 108.415				
	MODU 09/9.7				
.02 Verify number of pumps	46 CFR 108.415				
	MODU 09/9.7.5				
.03 Verify location(s)	46 CFR 108.417				
OA Marifu remate start an arction	MODU 09/9.7.1 & .2				
.04 Verify remote start operation.05 Verify pressure	MODU 09/9.7.6 46 CFR 108.421				
.03 Verily pressure	MODU 09/9.7.3				
.06 Verify relief valve installation	46 CFR 108.417				
tonly ronor raise inclanation	MODU 09/9.7.9				
.07 Verify fire station arrangements	46 CFR 108.425				
•	MODU 09/9.7.3				
	MODU 09/9.7.21 & .22				
.08 Verify no connections other than ones	MODU 09/9.7.15				
necessary for fire fighting					
FMUE-FF06 - Examine deluge system					
.01 Confirm voluntary installation locations	77 FR 70172				
.02 Confirm alternative arrangement (when	77 FR 70172				
applicable)					
.03 Verify drill floor has adequate coverage f	for 77 FR 70172				
.04 Verify condition of nozzles and piping	77 FR 70172				
.05 Verify access to system activation points	_				
.06 Verify protection of components	77 FR 70172				
.07 Verify on Fire Control Plan	77 FR 70172				