



FACILITY HANDLING LIQUEFIED NATURAL GAS JOB AID

Facility:	FIN:
MISLE Activity #:	Date:
Unit:	COTP Permit #:
FSO:	FSO Phone Number:
USCG Facility Inspector:	USCG Facility Inspector:
USCG Facility Inspector:	USCG Facility Inspector:

Guidance for completing the Liquefied Natural Gas Facility Job Aid – Coast Guard facility inspectors shall complete the job aid by verifying the contents within are in line with the requirements as per **33 CFR 127**.

Administrative Items	Y	Ν	N/A
Schedule Inspection			
Review Files			
- Applicability of regulations			
- History of deficiencies			
- MISLE records			
- Changes since last exam			
Review/Verify			
- Alternatives (if applicable) 33 CFR 127.017			
- Emergency and Operations Manuals Submitted IAW 33 CFR 127.019			
- Operations Manual Contents 33 CFR 127.305			
- Emergency Manual Contents 33 CFR 127.307			
- Proper use of Emergency and Operations Manual 33 CFR 127.309			
- Hot work program 33 CFR 127.617			
Prepare Inspection Plan			
 Generate Facility Inspection Activity in MISLE; and select appropriate Sub-Activity type 			
- Perform a risk assessment & review safe work practices for facility			
 Prior to departing for the Facility: Conduct safety brief & ready appropriate PPE 			
Pre-Inspection Items	Y	Ν	N/A
Is the facility MTSA Regulated per 33 CFR 105?			
- Record date of last MTSA Compliance Exam Date:			
 If exam is due; may perform exam utilizing the MTSA Facility Compliance Guide found in the NVIC 03-03 CH. 2, Encl. 7 (Note: SSI when filled out) 			
 If not due; may perform Security Spot check utilizing the Facility Security Spot Check Guide found in NVIC 03-03 CH. 2, Encl. 11 (Note: SSI when filled out) 			
Is the facility a MARPOL Reception Facility per 33 CFR158?			
- Record date of last MARPOL Exam; Date:			
- Record date of current COA: Date:			
- If exam is due; may perform exam utilizing the MARPOL Reception Facility Inspection/Investigation Job Aid			

Administration Items on Location	33 CFR	Y	Ν	N/A
Verify the following:				
- Persons In Charge Qualification and Certification	127.301			
- Declaration of Inspection Requirements	127.317			
- Testing Records on File as Required	127.409			
Requirements for Marine Terminals Safety Training:				
- Basic LNG Firefighting procedures	127.503(a)(1)			
- LNG properties and hazards	127.503(a)(2)			
- Advanced LNG firefighting procedures.	127.503(b)(2)			
- Security violations	127.503(b)(3)			
- LNG Vessel design and cargo transfer operations	127.503(b)(4)			
- LNG Release response procedures	127.503(b)(5)			
- First Aid procedures	127.503(b)(6)			
- Refresher training every 5 years	127.503(c)			
- OSHA Hazard Communication training 29 CFR 1910.1200				
Inspect LNG Facility	33 CFR	Y	Ν	N/A
Verify Piers and Wharves				
- Resist earthquake forces (if applicable)	127.103(a)			
- Verify substructure construction, location & fire endurance	127.103(b)			
- Verify volume of LNG/LPG storage tanks	127.103(c)			
Layout & Spacing of Marine Transfer Area for LNG				
- Verify impounding space design and location	127.105(a)			
- Verify loading flanges	127.105(b)			
Electrical Power Systems				
- Electrical and emergency electrical systems power sources have built in redundancy and meet NFPA 70 code	127.107(a)			
- Verify emergency power source meets requirements	127.107(b)			
- Verify Auxiliary generator meets Section 700-12 of NFPA 70	127.107(c)			
Lighting Systems				
- Verify separate emergency lighting	127.109(a)			

Inspect LNG Facility (continued)	33 CFR	Y	Ν	N/A
- Verify lighting does not interfere with ATON or navigation	127.109(b)			
- Verify illumination requirements	127.109(c)			
- Verify emergency lighting requirements	127.109(d)			
Communication Systems				
 Verify transfer area has ship-to-shore communications and emergency back up 	127.111(a)			
 Verify systems are dedicated to allow voice communications between PIC & control room 	127.111(b)			
Warning signs				
- Signs can be seen from shore & water	127.113(a)(2)			
- Signs contain required text	127.113(a)(3)			
- Sign lettering meets requirements	127.113(b)			
Sensing and Alarm systems				
- Fixed sensors have audio & visual alarms	127.201(a)			
- Fixed sensors that monitor for vapors meet requirements	127.201(b)			
- Fixed sensors that continuously monitor for flame, heat or combustion meet requirements	127.201(c)			
Portable Gas Detectors				
- Verify the transfer areas has at least 2 which meet requirements	127.203			
Emergency Shutdown				
 Verify each transfer system has an emergency shutdown system that can be activated manually and automatically when fixed sensors under 33 CFR 201(b) measure LNG concentrations exceeding 40% of the lower flammable limit 	127.205			
Warning Alarms				
- Verify warning alarms meet requirements (light/siren/location)	127.207			
Motor Vehicles Procedures				
- Verify designated parking spaces	127.311(a)			
- Verify no parking procedures during transfer operations	127.311(b)			
Bulk Storage Areas				
- Verify only authorized flammable liquids are stored in the transfer area	127.313(a)			
- Verify flammable liquids are stored in accordance with CH 4,	127.313(b)			

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Inspect LNG Facility (continued)	33 CFR	Y	Ν	N/A
Maintenance				
- All equipment required under this part is properly maintained	127.401			
- Verify inspections (once each calendar year not to exceed 15 months)	127.403			
- Verify all repairs	127.405			
- Verify all required tests are conducted	127.407			
- Verify all required tests and maintenance are recorded	127.409			
Fire Equipment				
 Verify fire equipment is red or some other conspicuous color (accessible) 	127.601(b)			
- Verify fire equipment bears the required approval markings	127.601(c)			
Portable Fire Extinguishers				
- Verify each transfer area has portable fire extinguishers that meet 9.6.1 of NFPA 59A and Chapter 3 of NFPA 10	127.603(a)			
- Verify each parking lot has 1 portable extinguisher	127.603(b)			
Emergency Outfits				
 Verify Emergency outfits meet the required number and equipment 	127.605(a)			
- Verify Emergency outfits are readily accessible	127.605(b)			
Fire Main Systems				
- Verify system provides at least 2 water streams to each part of the LNG transfer area	127.607(a)			
- Verify fire main system has isolation valves	127.607(b)			
- Verify fire main system meets capacity requirements	127.607(c)			
- Verify requirements of pressure relief valves	127.607(d)			
- Verify hose requirements	127.607(e)			
- Verify each length of hose meets standards	127.607(f)			

Inspect LNG Facility (continued)	33 CFR	Y	Ν	N/A
- Verify dry chemical system to the area surrounding the loading arms meets requirements	127.609(a)			
- Verify the dry chemical system meets the capacity requirements	127.609(b)			
- Verify the dry chemical system hose requirements are met	127.609(c)			
International Shore Connection				
- Verify shore connection meets requirements	127.611			

Document Inspection Results	Y	Ν	N/A
Complete Inspection report			
Review the report with facility representatives			
Explain inspection results/discrepancies			
Discuss possible enforcement options (if necessary)			
Obtain signatures of representative			

Post Inspection Items	Y	Ν	N/A
Complete all required MISLE entries (as per MISLE user guides)			
Initiate enforcement actions (if necessary)			
Schedule follow-up inspection (if necessary)			
Update Facility File			

LIQUEFIED NATURAL GAS FACILITY - Inspection Summary

Comments:

CG form 835F shall be used to issue deficiencies observed during examinations on the facility by the appropriately qualified representative of the COTP.