

Amendments to the New Fortress Energy Floating Storage and Regasification Terminal and Pipeline Network At Old Harbour Bay, St. Catherine

Submission Date: December 6, 2017

The following information outlines the characteristics of the project that were permitted using information contained in the EIA for NFE South Holdings Limited LNG Terminal And Pipeline Project, Old Harbour, St. Catherine and the proposed amendments after further detailed review of the biophysical conditions existing in the environment and incorporation of more current state of the art methodologies and technologies.

Project Component	Permitted – December 9 2016	Proposed Amendment – December 2017
1. Establishment of a Floating Storage and Re-gasification Terminal		
1. Location	LAT: N017.8564; LONG: W077.1093	LAT: N017.8458; LONG: W077.1167 Same as: Lat: N017 degrees, 50 minutes, 45.02 seconds Long: W077 degrees, 07 minutes, 00 seconds
2. Storage unit	Vessel with capacity up to 175 000 m ³	No Change
3. Equipment Location	On terminal - unloading area, control room, power distribution center, boil-off-gas, compressor skid, LNG pump skid, vaporizer and process skid, flare skid including drain tank and igniter, flare, nitrogen	On terminal - unloading area, crane, control room, launcher area



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	generator skid, seawater pumps, mixing tank, air burst system, crane, and launcher area	
4. Regasification Unit Location	Platform (part of terminal)	Vessel
a. Technique	Seawater heated	No change
5. Equipment	unloading area, control room, power distribution center, boil-off-gas, compressor skid, LNG pump skid, vaporizer and process skid, flare skid including drain tank and igniter, flare, nitrogen generator skid, seawater pumps, mixing tank, air burst system, crane, and launcher area	unloading area, crane, control room, launcher area
6. Dolphins		
a. Breasting	4	3
b. Mooring	6	6
7. Platform	938 m ²	No platform
8. Pylons	78	56
9. Footprint	3121 m ²	1290 m ²



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10. Sewage Management	Third party on land	Sewage treatment facility on vessel + third party off vessel
<u>2. Laying of Pipeline of Seafloor</u>		
11. Type of pipes	Natural Gas, Automotive Diesel Oil	Natural gas
12. Pipeline length	5,410 meters (from terminal to metering station)	6,729 meters (from terminal to metering station)
13. Pipeline Route	Due north in a straight line from FSRT to power plant and under existing reef. See location map	Due northeast then north from FSRT between reef. See location maps
14. Pipe size	8.625 inches (nominal 8")	10.5 inch (nominal 10")
15. Pipe material	Carbon Steel specified as API SL PSL2 Grade B with 14 to 16 mils of Fusion Bond Epoxy (FBE) Coating (for corrosion)	No Change



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16. Type of Cathodic Protection System	Impressed Current Cathodic Protection (ICCP) system / sacrificial anode bracelets	No change
17. Location	Under sea bed	No Change
18. Pipe laying process	HDD and trenching	Trenching
19. Depth of burial	1.5 – 7 m	No change
20. Pipe anchoring method	HDD and backfilling	Backfill w/ existing material after trenching + submar concrete mats
21. Dredging on seafloor	557 m ³	None
22. Mangrove Replanting	3250 m ²	None
23. Excavation on land	No excavation	176 m of pipelaying
24. Metering station		
i. Location	LAT: N017.900010 LONG: W077.110769	N:638987.179 E:738302.227
ii. Size	3250 m ²	2642 m ²



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iii. Equipment	Inlet pressure (bar) - 27.9 barg min Outlet pressure (bar) - 40.3 barg max	No change
iv. Number of regulating lines	Two runs for pressure control each using Worker/Monitor method. One (1) 6-inch for full flow condition and one (1) 4-inch for low flow condition	No change
v. Capacity per line (m3/h)	6-inch run - 5,900 to 32,000 m ³ hr ⁻¹ 4-inch run -1,200 to 9,500 m ³ hr ⁻¹	No change
vi. Type of volume meter	One 4-inch Coriolis for full flow condition One (1) 2-inch Coriolis for low flow condition	No change
25. End of Pipeline coordinate	Metering station LAT: N017.900010 LONG: W077.110769	Custody Transfer Point N: 638962.887 E: 738399.120

The overall project construction timeline will be shortened from the proposed two years to 12 months.

The overall economic benefit for the country will improve as shortening the implementation phase results in earlier benefits for the country. Also an earlier start up mean that Jamaica can lead the LNG market for supply to other Caribbean Islands which will result in additional tax collection for the TAJ.

