

Calypso LNG, LLC 1990 Post Oak Blvd., Suite 1900 Houston, TX 77056

December 17, 2007

Ms. Mary K. Jager United States Coast Guard (CG-3PSO-5) 2100 Second Street, SW Room 1508 Washington, DC 20593-0001

RE: Comments to Draft Environmental Impact Statement Calypso LNG Deepwater Port License Application dated November 2007 Docket No. USCG-2006-26009

Dear Ms. Jager:

Attached please find a matrix for your consideration representing Calypso LNG, LLC's comments to the U.S. Coast Guard's Draft Environmental Impact Statement for the Calypso LNG deepwater port project.

If you have any questions or comments, please do not hesitate to contact me at (713) 636-1216.

Sincerely,

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Dan McGinnis Vice President Calypso LNG, LLC

 Mark Prescott – USCG, Deepwater Ports Standards Division Bradley K. McKitrick – USCG, Deepwater Ports Standards Division H. Keith Lesnick – Deepwater Ports Program Manager, MARAD Bradley Cooley – Director of Development Initiates, SUEZ Antonino Riccobono – Principal, Ecology and Environment, Inc.

Enclosure

		Section/	Page No./	
Comment #	Topic/Resource Area	Subsection No.	Paragraph No.	Comment
1	Environmental Consequences and Mitigation	Water Resources	ES-9 / 6 and ES-10 / 2	Page ES-9 of the DEIS states: "Impacts to these species associated with entrainment were determ (ETM), in which the <u>average</u> daily seawater intake of the proposed Calypso Port (<u>43.6 million ga</u> Page ES-10 of the DEIS states: " in addition to the <u>43.6 mgd</u> required for the engine-cooling a <u>normal</u> operations." The table below summarizes the "maximum" potential seawater use from all intake sources on the port. The <u>maximum potential daily seawater use</u> assuming all intake sources operating simultar this would only occur when all three vessels are at the port at the same time, which does not happ output (for example, the LNG carrier which contributes to more than half the water usage in this not the SRS). For normal water usage information, please refer to Data Gap Response # 29. Maximum Potential Seawater Use (mgd) from All Intake
				Intake Source SRS TRV LNG Carrier Total
				Engine Cooling 0 7 8.2 15.2
				Ballast 8.2 2.7 16.8 27.7
				Water Curtain 0.16 0 0.16 0.32
				Desalination 0.44 0 0 0.44
				Firewater 0.01 0 0 0.01
				Total 8.81 9.7 25.16 43.67
				Please also note similar discrepancies in other sections of the DEIS as follows:
				 Page 4-19 states that "during <u>normal</u> operations would equate to a combined total of Page 4-45 states "A combined volume of <u>43.2 mgd</u> of seawater would be taken in by Page 4-60 states that "during <u>normal</u> operations would equate to a combined total of Appendix G page 3-5 states that "
2	Alternative Deepwater Port Locations	2.2.1.3	2-63 / 1	The DEIS states that Calypso indicated that the buoys would need to be separated by a minimal d collision between vessels arriving at or departing from one buoy with vessels already moored at the separated by a certain minimal distance (approximately 2 nautical miles) to ensure elimination of from one terminal and vessels stationed at the other terminal" (see Section 2.7.1, page 2-20). Data nautical miles minimal separation distance. For the Calypso DWP project, the actual separation between the section between the secti
				miles. Please also note that the unit of measurement is "nautical miles," which differs from miles. Please buoys to be "nautical miles."
3	Noise	3.10.1.2	3-93 / 1	The DEIS states: "A supertanker radiates noise in the water at 190 dB (re: 1μ Pa at 1 m). The equi m), which is much louder than a jet engine."
				Since these are not sources of airborne noise—which is the implication made by converting the un sentence should be deleted.
4	Noise	3.10.1.2	3-94 / 1	The DEIS states: "In accordance with these criteria, USN has applied a marine mammal harassme many published environmental studies for military operations in offshore areas."
				This reference to U.S. Navy (USN) underwater noise criteria is related to the use of sonar, not the Since this has no relation to the proposed action, Calypso LNG LLC recommends this paragraph

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nined through the use of an Empirical Transport Model allons per day [mgd]) . . ." and ballast water of the SRS, TRVs, and LNG carriers during

the SRS, TRVs, and LNG carriers that would operate at the neously would be <u>43.67 mgd</u>. It is important to point out that ben continuously even when the port is operating at maximum maximum case will only be at the port during unloading to

<u>43.2 mgd</u>…"

the LNG vessels for ballast...." **43.2 mgd.**"

rpected".

distance of approximately 3 miles to minimize the risk of the other. However, The DPLA states: "The buoys must be collision risk between vessels arriving at and/or departing a Gap # 21 also provides further clarification regarding 2.0 between the buoys for the preferred alternative is 2.6 nautical

e revise the unit of measurement for the separation between

ivalent noise level in the air is about 164 dB (re: 20µPa at 1

liary engines, and the turning of the propellers in the water. nderwater noise level to an airborne noise level—the second

ent and nonserious injury upper limit of 180 dB re: 1 µPa in

e movement of vessels or underwater construction impacts. be deleted.

0		Section/	Page No./	
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5	Biological Resources	4.3.1.2	4-31/2	The DEIS states: "Broadband noise source levels for construction vessels, the most significant noise would range from approximately 168.1 to 199.7 dB re 1 μ Pa-m (see Table 4.3.1-2). In addition, n broadband level of 138 dB re 1 μ Pa-m. Each of these produced noises would trigger acoustic hara trigger Level A harassment, and placement of the suction anchors would trigger Level B harassm the time of construction would experience masking, which would potentially interfere with an inclusards, such as approaching vessels."
				The paragraph implies that there is a firm threshold demarking non-harassment activities from harassconception that the broadband source level would not attenuate. In fact, the underwater sound SUEZ's study for <i>Neptune</i> (Massachusetts Bay) showed that:
				1. <u>Suction Piles</u> . While the broadband source level would indeed reach 138 dB, the results of mo 90 dB within 0.3 km of the source, depending on water depth. This is clearly not Level A or I A harassment.
				 <u>Construction Vessels</u>. Setting aside the contention that NOAA Fisheries Service would even of underwater sound generated by construction vessels would also attenuate to about 150 dB with than 120 dB, depending on season and water depth to 120 dB within 10 km or so. Clearly then harassment. In fact, Neptune is seeking an Incidental Take Authorization from NOAA Fisheric permit would not be focused on vessel noise, but would include the noisy construction-related
				Additional information for <i>Calypso</i> was provided in Data Gap Responses 116, 117, and 118.
6	Threatened and Endangered Species/Operation Impacts/Noise	4.3.1.2	4-34 / 1 st full paragraph	The DEIS states: "Regasification operations at the proposed Calypso Port are expected to create e Suggest rewording to avoid the use of "excessive," which is a subjective term that is risky to use
7	Threatened and Endangered Species/Operation Impacts/Noise	4.3.1.2	4-34 / 2	The text should account for the attenuation of the noise generated by the regasification process by regasification process is 165 dB re 1μ Pa at 1 m. The following information, provided in the response considered in developing this analysis:
				"Based on information prepared by JASCO Research Ltd (2005) for the Neptune DWP, the regast generate continuous source levels ranging from a low of 131 dB at a center frequency of 31.5 Hz important to note that these source levels overstate the noise effects of the regasification process a account for dampening by the hull of the vessel. Even so, the propagation of the signal would not miles from the source. There would be no situations in which the noise level would exceed 120 d be no disturbance of baleen or toothed whales with operation of regasification equipment within the source.
8	Impacts to Recreational and Visual Resources	4.6.1.1	4-76 / 2	In Section 4.6.1.1 (Page 4-76) and in several places throughout Section 4, the term "distasteful" is onshore viewers about the presence of LNG vessels at the DWP during operation. For example: "point of visual interest while others may find it visually distasteful."
				The wording used in the Executive Summary (page ES-11, 4 th paragraph) seems to be more approxime wording in Section 4:
				<i>"Proposed Action.</i> The primary impact to visual resources would be the introduction of new object appear similar to existing ships and vessels. However, they would be stationary for extended period are transient components of the viewshed. This would represent a minor, long-term alteration of the Project."
9	Noise / Underwater Noise	4.10.1.1	4-108 / 3	The analysis focuses on the broadband source level of various construction activities 3.3 feet from attenuate further from the source. The results of underwater noise modeling for the <i>Neptune</i> deep would attenuate to less than 120 dB from 6 to 10 km from the source, depending on propagation of the proposed construction activity and would not be as close as 3.3 feet from operating construction to sound levels associated with Level B harassment, not Level A. Thus the impact conclusion over marine mammals.

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bise source that would be produced during construction, noise created by suction anchor placement would reach a assment levels for marine mammals. The vessels would lent for continuous sound. Individuals present in the area at dividual's ability to hear the sounds of conspecifics or of

rassment activities, which there is not. It also perpetuates the would quickly attenuate as one moves away from the source.

odeling show that underwater sound levels would attenuate to Level B harassment. Only driving piles would result in Level

consider permitting vessel noise (very unlikely), the thin feet of the source (i.e., almost at the source) and be less re is no Level A harassment, but there would be Level B ies Service for construction of their pipeline and port. This d activities associated with the vessels.

excessive noise within the proposed Project area." to describe noise in an EIS.

y the hull. It assumes that the source level of the onse to Data Gap 118, does not appear to have been

sification equipment aboard the SRS and TRVs could to a high of 151 dB at a center frequency of 2000 Hz. It is as they were measured in-air instead of in-water and do not exceed 110 dB re 1 μ Pa @ 1m beyond about 3 nautical B even a few meters from the vessel. Therefore, there would the SRS or a TRV moored at the proposed *Calypso* DWP."

is used to represent a possible perceived negative opinion of 'Some offshore viewers may perceive the proposed Port as a

opriate / neutral and for consistency, we recommend using the

cts to the marine viewshed. These objects would generally ods, while most other ships and vessels 8 to 10 miles offshore the viewshed that would persist for the life of the proposed

n the source and ignores that fact that the sound level would water port in Massachusetts Bay show that pipelaying noise conditions. In any event, marine mammals would likely avoid on equipment. At most, marine mammals would be exposed erstates the likely effect of *Calypso* port construction on

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10	Noise / Underwater Noise	4.10.1.1	4-108 / 4	There is no analytical support for the statement that "[underwater] construction noise could result proposed Calypso port." Unless the analysis assumes that recreational boaters and fishermen woul receptors.
11	Marine Mammals	6.3.2.3	6-22 / 2	This paragraph is written as if potential noise impacts would occur in a confined space. Instead, the identified projects would be localized to the immediate port or pipeline construction route. They we not overlap geographically. The DEIS also assumes that the installation of all these projects would paragraph includes no analysis that supports the conclusion that there would be significant cumula. The discussion on the right whale does not link critical habitat or the actual probability of the anim for impacts, but nevertheless predicts adverse impacts.
12	Fisheries Resources	6.3.2.6	6-24 / 1	The DEIS states: "Fish stocks in the ROI are currently stressed by over-fishing, habitat degradation No support/source for this statement is provided. It is not statistically defensible to simply say that mentioned. The statement should be deleted or be reworded to qualify its actual intent as applied to

t in annoyance to recreational boaters or fishers near the ald be swimming or diving in the water, they cannot be

the potential underwater noise effects associated with the would occur in the ocean area off South Florida but would ld occur concurrently, which is not necessarily accurate. The lative effects on marine mammals from the proposed projects. imal being present in the various project areas to the potential

on and deterioration of water quality." at fish stocks in the ROI are stressed by any of the parameters to the Calypso DWP ROI.