APPENDIX L Responses to Comments

APPENDIX L - RESPONSES TO COMMENTS

Golden Pass LNG Export Project Comments on the Draft EIS and Responses Index

Document Number	Commentor
FEDERAL AGENCIES	
FA1	U.S. Department of the Interior
FA2	U.S. Senators John Cornyn and Bill Cassidy
FA3	U.S. Congressman Gene Green
FA4	U.S. Environmental Protection Agency
FA5	U.S. Army Corps of Engineers – Galveston District
FA6	U.S. Congressman Randy K. Weber
STATE AGENCIES	
SA1	Louisiana Department of Wildlife and Fisheries
SA2	Texas Senator Brandon Creighton
SA3	Texas Parks and Wildlife Department
SA4	Texas Senator Brandon Creighton
SA5	Texas Representative Gene Wu

COMPANIES AND ORGANIZATIONS

CO1	Black Pearl Exploration
CO2	Consumer Energy Alliance
CO3	Sealark Investments, Inc.
CO4	Southgate Resources, LLC
CO5	Sterling Integrated Solutions, LLC
CO6	American Petroleum Institute
CO7	Industrial Energy Consumers of America
CO8	Sierra Club

PUBLIC MEETINGS

PM1 VFW Post 4159, Starks, Louisiana

PM2 Sabine Pass High School, Sabine Pass, Texas

APPLICANT

AP1 Golden Pass Products

L-1 Appendix L

FA1 - U.S. Department of the Interior

United States Department of the Interior



OFFICE OF THE SECRETARY
Office of Environmental Policy and Compliance
1001 Indian School Road NW, Suite 348
Albuquerque, New Mexico 87104

ER 16/0174 File 9043.1

May 11, 2016

VIA ELECTRONIC MAIL ONLY

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE Washington, DC 20426

Subject: COMMENTS and RECOMMENDATIONS – Draft Environmental Impact Statement (DEIS) for the Proposed Golden Pass LNG Project; FERC Nos. CP14-517-000 and CP14-518-000; Louisiana and Texas

Dear Ms. Bose:

The U. S. Department of the Interior has reviewed the subject Draft Environmental Impact Statement for the Proposed Golden Pass Liquefied Natural Gas Project located Louisiana and Texas. The U. S. Fish and Wildlife Service (FWS) Louisiana Ecological Services Office offers the following comments and recommendations in accordance with provisions of the National Environmental Policy Act (NEPA) of 1969 (83 Stat. 852; 42 U.S.C. 4321 et seq.), the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), the Migratory Bird Treaty Act (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703 et seq.), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.).

FA1-1

As the proposed project is located in both Louisiana and Texas, FERC should require the Final EIS to include provisions stating that mitigation for impacts on jurisdictional wetlands be implemented in the state in which they occur.

We appreciate the opportunity to review this DEIS and provide these COMMENTS and RECOMMENDATIONS. If you have any questions, please contact Joshua Marceaux, Fish and Wildlife Biologist, U.S. Fish and Wildlife Service, Southwest Louisiana National Wildlife Refuge Complex at (337) 774-5923.

Sincerely,

Stephen Money

Stephen Spencer, Ph.D. Regional Environmental Officer

cc: FERC Service List

FA1-1 See response to comment FA4-9 regarding Golden Pass' wetland mitigation plans.

FA1 – U.S. Department of the Interior (cont'd)

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FEDERAL ENERGY REC	ULATORY COMMISSION
Draft Environmental Impact Statement;) Project No. CP14-517-000
Golden Pass Liquefied Natural Gas Project; Louisiana and Texas) Project No. CP14-518-000
Doubland and Toxab	<i>y</i>
Certificat	e of Service
I hereby certify that I have this day caused the foreg designated on the official service list compiled by the	
Dated	on this 11th day of May, 2016.
Stylen	. Aponer
Stephe	n R. Spencer
	nal Environmental Officer epartment of the Interior
1001 I	ndian School Road NW, Suite 348
Albuq	nerque, NM 87104
	2

FA2 – U.S. Senators John Cornyn and Bill Cassidy

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United States Senate

WASHINGTON, DC 20510

May 16, 2016

Secretary Kimberly D. Bose Federal Energy Regulatory Commission 888 First Street Northeast Washington, DC 20426

Re: Golden Pass Products LLC and Golden Pass Pipeline, LLC

Docket Nos: CP14-517-000 and CP14-518-000

Dear Secretary Bose:

FA2-1

We are writing to express our support for the Golden Pass Products, LLC and Golden Pass Pipeline, LLC (collectively, "Golden Pass") project applications in light of the recent draft Environmental Impact Statement (EIS) issued by the Federal Energy Regulatory Commission (FERC) on March 25, 2016. As you know, Golden Pass is seeking approval to site, construct, and operate its proposed liquefied natural gas (LNG) export facility in Sabine Pass, Texas, and for modifications to its existing interstate pipeline. The draft EIS represents a critical milestone in the FERC permitting process. We appreciate FERC's thorough assessment of the potential impacts of this critical project and support the conclusion of the draft EIS that, with the proposed mitigation efforts, the construction of the new facility will not result in significant environmental impacts.

The proposed Golden Pass LNG export project will greatly benefit both Texas and Louisiana, as well as the entire United States. Specifically, the five-year construction phase could generate as many as 45,000 direct and indirect jobs nationwide. The decades-long operations phase could create some 3,800 direct and indirect permanent jobs for a generation. Further, over the life of the project, this \$10 billion investment could generate more than \$30 billion in economic gains and \$4.6 billion in tax revenues at local, state, and national levels.

As you continue to review the proposed Golden Pass LNG export project, we urge you to support the draft EIS and to publish the final EIS on schedule.

John Cornyn United States Senator 15:11 Cassidy, M.D. United States Senator

The commentors' support of the Project is noted.

FA2-1

FA3 – U.S. Congressman Gene Green

COMMITTEE ON ENERGY AND COMMERCE **GENE GREEN** . SUBCOMMITTEE ON ENERGY AND POWER SUBCOMMITTEE ON ENVIRONMENT AND THE ECONOMY 2470 RAYBURN Congress of the United States SUBCOMMITTEE ON HEALTH BANKING MEMBER WASHINGTON, DC 200 (202) 225-1688 TON DC 20515 SUBCOMMITTEE ON OVERSIGHT AND INVESTIGATIONS Couse of Representatives 256 N. SAM HOUSTON PKWY. E. DEMOCRATIC SENIOR WHIP Suite 29 Houston, Texas 77060 (281) 999-5879 Washington, DC 20515-4329 11811 I-10 EAST SUITE 430 HOUSTON, TEXAS 77029 (713) 330-0761 WWW.HOUSE.GOV/GREEN May 16, 2016 Acting Chairman Cheryl A. LaFleur Federal Energy Regulatory Commission 888 First Street, NE Washington, DC 20426 Golden Pass Products LLC and Golden Pass Pipeline LLC. Docket Nos. CP14-517-000 and CP14-518-000 Dear Chairman LaFleur: We are writing to express our strong support for the Golden Pass LNG project in Sabine Pass, Texas. This FA3-1 project, proposed by ExxonMobil and its partner, presents a significant economic development opportunity for the State of Texas and the entire country. It will maintain and strengthen the energy producers in Texas's oil and gas fields and promoting our national energy security. Therefore, we encourage you to move forward on the Golden Pass LNG Draft Environment Impact Statement as expeditiously as possible. Golden Pass' investment will have dramatic economic impacts on a local, state, and national level. The construction will expand economic activity in South Texas by as much as \$31 billion, with the construction activity generating up to 45,000 jobs over the same period. Golden Pass has proven its commitment to maintaining the natural resources, and the Golden Pass facility has been designed to meet or exceed all the applicable federal and state regulations. Golden Pass' track record of unwavering commitment to safety, environment, and community is a strong indicator of how they will build and operate the new project. Promoting exports of natural gas produced within our borders will help to secure our long-standing allies across the globe, while reducing dependence on energy supplies from energy markets not aligned with our national interests. Expanding markets for U.S. natural gas is consistent with U.S. trade and national security interests. G-100-11

FA3-1 The commentor's support of the Project is noted.

FA3 – U.S. Congressman Gene Green (cont'd)

Acting Chairman LaFleur Page 2 05/16/2016 In addition to extensive support within the State, the Golden Pass project's positive impacts extend well beyond Texas' borders, and I believe that the permitting of the facility is in the best interests of the country. I therefore ask the Federal Energy Regulatory Commission to provide a both expeditious and favorable review of the Golden Pass application and publish the Final EIS as scheduled and issue the final (cont.) order as soon as possible. Member of Congress

L-,

FA4 – U.S. Environmental Protection Agency



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

May 16, 2016

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: OEP/DG2E/Gas 2; Golden Pass Products LLC and Golden Pass Pipeline LLC; Docket Nos. CP14-517-000 and CP14-518-000

In accordance with our responsibilities under Section 309 of the Clean Air Act (CAA), the National Environmental Policy Act (NEPA), and the Council on Environmental Quality (CEQ) regulations for implementing NEPA, the U.S. Environmental Protection Agency (EPA) Region 6 office in Dallas, Texas, has completed its review of the Federal Energy Regulatory Commission (FERC) Draft Environmental Impact Statement (DEIS) for the Golden Pass LNG Export Project (Project). The purpose of the Project is to expand the existing terminal and pipeline in order to liquefy and export domestic natural gas to global markets.

EPA's review identified a number of potential adverse impacts to wetlands and aquatic resources. In addition, we request additional information regarding environmental justice communities, air quality, indirect effects, greenhouse gas emissions, and wetlands to provide a more complete analysis. For these reasons we have rated the Draft EIS as "Environmental Concerns - Insufficient Information" (EC-2). The EPA's Rating System Criteria can be found at http://www.epa.gov/compliance/nepa/comments/ratings.html. EPA recommends that these issues be addressed in the Final EIS. We have enclosed detailed comments which clarify our concerns.

EPA appreciates the opportunity to review the Draft EIS. Please send our office one copy of the Final EIS when it is electronically filed with the Office of Federal Activities. If you have any questions or concerns, I can be reached at 214-665-8565, or contact Stephanie Meyers of my staff at meyers.stephanie@epa.gov or 214-665-6496, or Keith Hayden at hayden.keith@epa.gov or 214-665-2133.

Robert Houston

Chief, Special Projects Section

Enclosures

FA4 – U.S. Environmental Protection Agency (cont'd)

DETAILED COMMENTS ON THE FEDERAL ENERGY REGULATORY COMMISSION DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR THE GOLDEN PASS LNG EXPORT PROJECT

BACKGROUND: The Golden Pass LNG Export Project consists of the Golden Pass Export Terminal Expansion and the Golden Pass Export Pipeline Expansion. These expansions will involve adding liquefaction facilities at the existing Golden Pass Import Terminal and modifying the existing Golden Pass Pipeline by constructing approximately 2.6 miles of new 24-inch diameter pipeline, associated compressor stations, and appurtenant facilities in order to liquefy and export domestic natural gas to global markets.

ENVIRONMENTAL JUSTICE

FA4-1

The DEIS provides county, parish and state level population demographics. It does not provide analysis of the surrounding communities within a 5 mile radius of the project to determine whether there are potentially affected low-income or minority populations. Therefore, based on the information provided, it is difficult to determine whether there may be disproportionate high and adverse human health or environmental effects on the surrounding population.

Recommendation:

- Utilize EPA's EJSCREEN, NEPAssist and/or other applicable tools to determine population demographics within 5 miles of the Project's location.
- Analyze the potential for Environmental Justice issues within 5 miles of the project area, using the methods outlined in the Council on Environmental Quality's guidance ("Environmental Justice: Guidance under the National Environmental Policy Act," December 1977), available at http://energy.gov/nepa/downloads/environmental-justice-guidance-under-nepa.
- Consider "Promising Practices for EJ Methodologies in NEPA Reviews: Report of the Federal Interagency Working Group on Environmental Justice and NEPA Committee, March 2016, available at http://epa.gov/environmentaljustice/ej-iwg-promising-practices-ej-methodologies-nepa-reviews.
- Determine whether minority and low-income populations are present that have the
 potential to be affected by the proposed project. As part of that analysis, for example, we
 recommend that the Final EIS include a comparison of the demographics of the project
 area and suitable reference areas.
- Determine whether there may be disproportionate high and adverse human health or environmental impacts on the surrounding population, and list measures to address and mitigate those impacts.
- Develop a community engagement and outreach plan; state how outreach was conducted; and document community concerns. Include a discussion on how the concerns will be addressed, and include any agreed mitigation activities.

FA4-1 Section 4.9.7 has been updated to include a discussion of communities within 5 miles of the Project.

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-1 (cont.)

- Briefly discuss the potential scenarios associated with the project that could adversely
 impact the Environmental Justice community.
- Provide a brief discussion of the thermal radiation distance relative to Environmental Justice population of all applicable sources, including all sumps.

AIR QUALITY

FA4-2

The DEIS contains outdated information regarding the National Ambient Air Quality Standards (NAAQS). On October 1, 2015, EPA revised the ozone standard to 70 parts per billion. Please revise Section 4.0 – Environmental Impact Analysis and any modeling analysis that was based on the 2008 ozone standard to reflect the new standard.

INDIRECT EFFECTS

FA4-3

The DEIS did not fully consider the potential for increased natural gas production as a result of the proposed terminal and the potential for environmental impacts associated with these potential increases. Both FERC and the Department of Energy (DOE) have recognized that an increase in natural gas exports will result in increased production. DOE has released a draft study that provides the kind of conceptual level analysis of the types of impacts that are likely to occur from increased production: "Addendum to Environmental Review Documents Concerning. Exports of Natural Gas from the United States." DOE's work also recognizes that many of the potential impacts will vary considerably by the production location due to differences in local environment, regulatory structure, and other factors. We recommend that this study be considered as part of the analysis for this project.

CLIMATE

Greenhouse Gas Emissions:

FA4-4

The DEIS included analysis of the greenhouse gas (GHG) emissions associated with construction of the project, and annual emissions from the operation of the liquefaction facility, but did not include estimates of the GHG emissions associated with the production, transport, and combustion of the natural gas proposed to be exported. Because of the global nature of climate change, even where the ultimate end use of the natural gas occurs outside the US, these additional greenhouse gas emissions attributable to the project would affect the U.S. Because of these impacts, it is appropriate and consistent with NEPA and CEQ regulations to consider and disclose these types of emissions in NEPA analyses. We also note that FERC's DEIS for the Jordan Cove Energy and Pacific Connector Gas Pipeline project included useful calculations of

FA4-2 Section 4.11 has been updated with EPA's revised ozone standard.

FA4-3

The commentor contends that the proposed Project and other planned LNG export projects, if constructed and operated, will cause an increase in environmental impacts from induced gas production and pipeline transportation. While it is reasonable to assume that export of natural gas could result in increased natural gas production, where this gas would come from is speculative and would likely change throughout the operation of the project. Further, the development of natural gas is not the subject of this EIS nor is the issue directly related to the proposed Project. Production and gathering activities, and the pipelines and facilities used for these activities, are not regulated by FERC, but are overseen by the affected region's state and local agencies with jurisdiction over the management and extraction of the resource. Determining the well and gathering line locations and the environmental impacts associated with their development and operation is not feasible as the market and gas availability at any given time would determine the source of the natural gas.

As part of its National Environmental Policy Act (NEPA) analysis of proposed projects, the FERC often considers the potential environmental impacts of natural gas production and development occurring in the project area as part of the cumulative impacts analysis to the extent that there is meaningful information available to assist the FERC's decision-making process in a particular proceeding (as indicated in our cumulative impacts discussion [section 4.13]). With respect to production and development activities that are not within a project area, the FERC determines whether such activities should be included EIS based upon a fact-specific analysis.

FA4-4

The 'life-cycle' cumulative environmental impacts of exploration, production, transportation to the proposed Golden Pass Project, shipment of LNG overseas, and ultimate combustion of the gas in foreign nations are far beyond the jurisdictional authority of the FERC (and much of it is beyond the authority of any federal or state government entity in the United States). Nor can those impacts be easily or reasonably calculated given the unknown elements in the chain. Golden Pass has not identified specific LNG vessels that would ship the LNG abroad or the exact customers for the gas. Without knowing the final destination(s) of the LNG or ultimate use of the subsequent natural gas, it would not be possible to calculate the environmental impacts associated with its overseas shipping.

¹ Effect of Increased Natural Gas Exports on Domestic Energy Markets, as requested by the Office of Fossil Energy, US Energy Information Administration, January 2012 (http://energy.gov/sites/prod/files/2013/04/f0/fe_eia_lng.pdf) and Cameron LNG EIS, Appendix L (Response to Comments), p. L-36 (http://elibrary.fere.gov/idnws/common/OpenNat.asp?fileID=13530753)

² Draft Addendum to Environmental Review Documents Concerning Exports of Natural Gas from the United States. DOE. (http://energy.gov/sites/prod/files/2014/05/f16/Addendum_0.pdf)

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-4 (cont.) GHG emissions from end use of the gas exported by the facility, and we recommend that similar calculations be considered as part of the analysis and decision making for this project.

DOE has issued two documents that are informative in assessing the GHG emissions implications of the project. In addition to the Addendum mentioned above, the NETL's report, entitled "Life Cycle Greenhouse Gas Perspective on Exporting Liquefied Natural Gas from the United States" is relevant. Together, these reports provide a helpful overview of GHG emissions from all stages of a project, from production through transmission and combustion. The NETL report includes comparative analysis of GHG emissions associated with other domestic fuel sources and LNG exports as they relate to other possible fuel sources in receiving regions. This information can help decision makers review foreseeable GHG emissions associated with the increased production and export of natural gas compared to other possible fuels. EPA recommends that both DOE reports be considered as part of the decision making process for this project and incorporated by reference in future NEPA documents. FERC may also want to consider adapting DOE's analysis to more specifically consider the GHG implications of projects.

The FERC states no standard methodology exists to determine the proposed Project's incremental contribution to GHGs that would have physical effects on the global environment. Peer-reviewed methodologies exist for measuring incremental contributions to the effects of climate change; we recommend removing this language in the Final EIS. For purposes of informing decision makers and the public, we recommend using estimated direct and indirect GHG emissions levels as a general proxy to compare emissions levels from the proposal, alternatives, and potential mitigation.

CONSULTATION AND COORDINATION

Table 1.5-1, on page 1-10, lists the consultations FERC must complete. In addition to the consultations listed, EPA continues to recommend that the following be added to the table:

FA4-5

- EPA section 1424(e) of the Safe Drinking Water Act of 1974 The DEIS states "The Chicot Aquifer in Louisiana has been designated by EPA as a sole-source aquifer (EPA 2008). The Pipeline Expansion, MP 66 Compressor Station, TGP Interconnect, TETCO Interconnect, and Transco Interconnect in Louisiana would overlie a sole-source aquifer". Please consult EPA for potential impacts to the Chicot SSA.
- FEMA Executive Order (EO) 11988 Many project components will be built inside FEMA designated 100-year flood zones. While levee and other protections are in place, development inside a floodplain still requires consultation with FEMA or a designated county Floodplain Administrator.
- NRCS Farmland Protection Policy Act (FPPA) Temporary and permanent impacts to prime farmland soils are described in the DEIS. Regardless of the amount of soils impacted, consultation with the National Resource Conservation Service, or their designated local representative, needs to occur.

4-5 The U.S. Environmental Protection Agency's (EPA's) request is noted. However, table 1.5-1 lists all major permits and consultations required for construction and operation of the Project. Golden Pass is still coordinating with federal, state, and local agencies regarding impacts from the Project and any additional measures recommended by these agencies.

FA4-5

³ Life Cycle Greenhouse Gas Perspective on Exporting Liquefied Natural Gas from the United States. DOE/NETL-2014/1649 (http://energy.gov/fe/life-cycle-greenhouse-gas-perspective-exporting-liquefied-natural-gas-united-states)

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-5 (cont'd) RRC – Please file documentation of the coastal consistency determination from the Texas Railroad Commission prior to construction.

The opinions of resource agencies tasked with the duty to carry out consultation are important and should be included in the FEIS. Without these opinions, interested parties are not able to fully assess the impacts of the project.

GENERAL COMMENTS

FA4-6

Page 4-158 classifies daytime hours as 7:00am – 10:00pm, and says construction will
take place between these hours when feasible. We recommend not defining 10:00 p.m.
as daytime. The vast majority of construction projects with noise sensitive receptors
adhere to a 7:00am – 7:00pm construction schedule. Please modify the description of
daytime hours and adhere to a 7:00am – 7:00pm construction schedule as much as
possible.

FA4-7

Page ES-2 of both the Administrative Draft EIS and DEIS contain information under the
paragraph titled "Terminal Expansion" regarding the facilities that would be included in
the expansion. Please clarify any changes made to the facilities included in the
expansion, and potential changes in impacts due to these changes.

FA4-6

No update to the designated daytime hours is necessary. For purposes of the noise analysis, the daytime hours comply with the city of Port Arthur's noise ordinance requirements.

FA4-7

The Executive Summary is provided to give a general overview of the Project and the associated impacts. Section 2.2.1 describes the facilities proposed as part of the Terminal Expansion.

FA4 – U.S. Environmental Protection Agency (cont'd)

ATTACHMENT 1

Golden Pass LNG Export Project Draft Environmental Impact Statement General and Specific Section 404 CWA Comments

Draft Resource Reports - previous comments

FA4-8

 Comment: EPA previously commented on the draft Resource Reports for this project, and Golden Pass responded to our comments. However, the Draft EIS does not appear to incorporate many of the issues we raised or recommendations we made. Specifically, EPA made the following comment in regards to wetlands impacts and water dependency.

"While Golden Pass explains why the project needs to have shipping access, and thus why it is water-dependent in that respect, it doesn't explain why other aspects of the project that will impact waters of the U.S. (facility expansion, laydown areas, pipeline connections, etc.) are water-dependent. Why couldn't these facility components be located in areas that are not waters of the U.S?"

Recommendation: Address the water-dependency of various aspects of the proposed project that will impact wetlands in the Final EIS and explain why they could not be located in areas that don't impact waters of the U.S.

Draft Mitigation Plan - previous comments

FA4-9

Comment: EPA provided extensive comments to Golden Pass on the draft mitigation
plan, and posted comments on the FERC docket. However, our comments were not
addressed in the DEIS.

Recommendation: Provide a detailed response to our comments on the draft mitigation plan in the Final EIS.

Alternatives Analysis

FA4-10

 Comment: While the Port Arthur Liquefaction alternative may impact largely unimpacted habitat, it is not clear to us that this means it would impact more wetland habitat, than the proposed alternative.

Recommendation: Provide the details of any analysis done to arrive at this conclusion. In particular, discuss potential wetland impacts of this alternative versus those of the proposed alternative.

FA4-11

 Comment: One of the criteria used to eliminate alternatives was the permitting and authorization processes for constructing and operating additional facilities would FA4-8

Not all aspects of the Terminal Expansion Project are water dependent; however, proximity to the existing Terminal results in the ability to use existing facilities and limits the facilities that need to be constructed. See section 3.3.1 for our evaluation of alternative sites for the Terminal Expansion within upland areas in a 4-mile radius of the existing terminal.

FA4-9

Golden Pass is continuing to coordinate with the Army Corp of Engineers (COE), EPA, and state agencies on its Wetland Mitigation Plan. Incorporation of any comments received from agencies into Golden Pass' final mitigation plans would be coordinated as part of its Section 404 permit with the COE.

FA4-10

As of the filing of this EIS, the applicant for the Port Arthur Project had not yet filed impact acreage numbers for its project. However, given the proposed location of the project as well as the current land use of the land in that area, which is mainly wetlands, we estimated that the Port Arthur Project would result in similar or larger wetland impacts.

FA4-11

The Commission's policy is to ensure that all proposed projects are environmentally sound and consistent with public safety and then leaves it to the market to determine which projects are constructed. We therefore review applications for gas projects as they are filed, based on individual merits. The Energy Policy Act of 2005 directs the Commission to establish a schedule for the regulatory review by the Commission and relevant federal and state agencies that ensures "expeditious completion" of proceedings. Therefore, requiring expansion of existing or proposed facilities to meet the needs of the Golden Pass Expansion Project would delay Commission review of the Project significantly and would be inconsistent with the Energy Policy Act of 2005.

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-11 (cont.)	substantially delay meeting the anticipated timeline for the Terminal Expansion. While logistical constraints can be used to eliminate alternatives, there needs to be an adequate justification as to why the meeting the timeline for terminal expansion is crucial to the project.
	Recommendation: Provide a detailed justification as to why meeting the timeline for terminal expansion is crucial to the project.
FA4-12	 Comment: The Draft EIS states that the surrounding areas at many of the existing LNG terminals contain wetlands and would have impacts similar to, or greater than, the preferred alternative. It is unclear what information was used to make this determination.
	Recommendation: Explain in detail the information used and analysis conducted to determine the amount of wetlands or environmental impacts at existing LNG facilities would be greater than, or equal to, the preferred alternative.
FA4-13	 Comment: Section 5.1.13 describes an alternative expansion site comprised of upland habitat 0.3 miles from the existing facility. The old spoil bank upland habitat at this site are largely lower quality wetlands that have developed on the spoil bank. The proximity of this site to the existing facility suggests that a facility design using this site may well be possible. Wetland impacts could potentially be less than the proposed alternative when considering wetland quality and function.
-W	Recommendation: Analyze the alternative site while factoring in wetland quality and function when determining impacts to wetlands. Include this analysis in the Final EIS.
7	Wetlands Impacts and Mitigation
FA4-14	 Comment: The Draft EIS does not explain why the proposed location of the facility expansion laydown area is the best alternative.
	Recommendation: The Draft EIS should include detailed arguments for why the laydown area proposed is the best alternative.
FA4-15	 Comment: There are 8.9 acres of wetlands impacts associated with the terminal expansion that will be allowed to revert to preconstruction conditions. There is not a detailed explanation of how the impacted wetlands are expected to regenerate naturally, or what steps will be taken if the wetlands do not regenerate.
	Recommendation: EPA recommends the 8.9 acres of impacted wetlands be actively restored by planting all areas with appropriate species and density, and monitor restoration success based on preconstruction conditions. If fully successful mitigation cannot be accomplished, EPA recommends mitigating for any loss of wetland function.

FA4-12 Our assessment of impacts related to expansion of existing terminal facilities was based on our knowledge of each of the existing facility locations as described in their applications.

Additionally, given that we can reliably estimate the footprint of a single train, we are able to estimate impacts from expansion of the existing facilities.

FA4-13

FA4-14

Section 5.1.13 is a summary of our conclusions. The full assessment of the alternative site can be found in section 3.3.1. Section 3.3.1 of the EIS has been updated to include additional details regarding our conclusions of the upland site 0.3 mile away. Although the quality of wetlands surrounding TEA-1 may be lower than the proposed site, relocating the terminal expansion to TEA-1 would move the facility closer to and abutting the town of Sabine Pass. This could result in increased impacts to the residents, including visual, air, and noise.

Since the uses associated with the laydown area would require the area to be located adjacent to the Project area, and the surrounding area is also wetland, we determined that no viable alternative was available.

FA4-15 Golden Pass would adhere to our Procedures for restoration of wetlands impacted during construction. This would include consultation with federal and state agencies to develop a project-specific wetland restoration plan.

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-16

• Comment: The Draft Mitigation Plan does not meet the requirements of 40 CFR Part 230 Compensatory Mitigation for Losses of Aquatic Resources; Final Rule (the 2008 Mitigation Rule), and therefore, it does not meet the requirements of the Guidelines either. Specifically, the proposed mitigation is "out of kind." While it can be argued that trading low quality, invasive, Chinese tallow scrub-shrub wetlands and high palustrine emergent marsh (Spartina spartinae) located on old dredged material disposal areas, for relatively high quality brackish, tidal marsh, is a good trade, we don't believe the same can be said for trading palustrine emergent marsh, not located on the dredged material disposal sites.

Recommendation: Propose alternate, in-kind compensatory mitigation for impacts to palustrine emergent wetlands that are not located on the former dredged material disposal area.

Comment: The wetlands that would be impacted, and those proposed to be created with
dredged material as mitigation, will not have the same land loss rates in the future.
 Impacted wetlands will have considerably lower land loss rates than will the created
marshes. While this is not significant over relatively short time scales (i.e. 1-10 years), it
will become more significant over longer time scales (20 years and beyond).

Recommendation: Develop a solution to the problem of the proposed mitigation declining in acreage, over time, at a higher rate than the impacted wetlands. We recommend monitoring the created mitigation marsh acreage, and to consider periodic additions of new created marsh to compensate for conversion to water over time. Estimates of future additional marsh mitigation needs could be adjusted for any land loss that would otherwise occur at the impact wetlands.

• Comment: It is not clear whether the mitigation acreage proposed is acres of wetland only, or a mix of wetland and water. While an appropriate mix of wetland and water, interspersed in appropriate patterns, is probably more ecologically desirable than a solid marsh, it is important that acres of wetland aren't being exchanged for mixed wetland/water acres. In other words, if the mitigation wetland is a mix of marsh and water, the acreage necessary for full compensation will be higher than if it was solid wetland, regardless of other possible multipliers based on function.

Recommendation: Clarify whether the acreage of proposed restored mitigation marsh is based on wetlands only, or whether it is intended to explicitly include a mix of wetlands and water. If the latter, clarify whether the number of acres of mitigation was increased to account for this. Regardless of whether the mitigation is a mix of wetland and water, the actual acreage of wetland proposed as mitigation should be a multiplier that is a function of the actual acreage of wetland to be impacted, and implications of any functional assessment done.

FA4-16 See response to comment FA4-9 regarding Golden Pass' wetland mitigation plans.

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-17	 Comment: The proposed standard approach to restoring wetland impacts from pipeline construction, includes only allowing natural revegetation, or perhaps seeding with an unidentified plant species, presumably for erosion control. This approach may not be very effective in some wetlands. 	FA4-17	See response to comment FA4-15 regarding post-construction restoration of wetlands.
	Recommendation: We recommend monitoring natural vegetative recruitment into wetlands impacted by pipeline construction, and if natural vegetative recruitment does not result in an appropriate plant community after 1 year, we recommend planting the area with appropriate species of transplants at an appropriate planting density.		
FA4-18	 Comment: The proposed approach of managing pipeline right of ways by mowing and/or application of herbicides, results in impacts to wetlands that were crossed by the pipeline. It is not clear if areas that are to be mowed are being counted as impacted wetland, or if mitigation for these impacts was proposed. 	FA4-18	Golden Pass is still developing its wetland mitigation plan for wetlands within Louisiana. See response to comment FA4-9 regarding Golden Pass' wetland mitigation plan.
	Recommendation: Mitigate for lost wetland functions resulting from right of way management practices.		
FA4-19	 Comment: It is unclear how much time will elapse between wetland impacts resulting from project construction (either facility or pipeline) and mitigation completion. 	FA4-19	See response to comment FA4-9 regarding Golden Pass' wetland mitigation plan.
	Recommendation: If necessary, mitigate for any temporal losses in wetland function due to project wetland impacts.		
	 Comment: It does not appear that mitigation is proposed for permanent loss of trees and shrubs, or for temporary impacts to herbaceous vegetation. 		
	Recommendation: Mitigate for all permanent impacts to forested or shrub wetland habitat, as well as for temporal impacts to herbaceous wetlands.		
FA4-20	 Comment: It is possible that impacts to PEM wetlands will not be of short duration. It is reasonably likely that at least some PSS wetlands will not be restored without planting within 2-4 years. Conversion of forested wetlands (PFO) to herbaceous wetlands is a major change, and should be mitigated. 	FA4-20	See response to comment FA4-9 regarding Golden Pass' wetland mitigation plan.
S.	Recommendation: Plant impacted PEM and PFO wetlands with appropriate plant species at an appropriate density, and fully mitigate for conversion of PFO to PEM (bank credits). Alternately, monitor natural restoration of PEM wetlands to preconstruction conditions, plant PSS wetlands, fully mitigate for conversion of PFO wetlands to PEM wetlands, and mitigate for temporal losses due to lags in restoration of PEM and PSS wetlands.		

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-21

 Comment: Section 4.4.3 states direct and long-term impacts to wetlands will be mitigated, but does not mention mitigation for indirect impacts to wetlands.

Recommendation: Change the statement in Section 4.4.3 to reflect that indirect impacts also require mitigation.

Dredged Material Management Plan and Sediment Testing

FA4-22

 Comment: The Dredged Material Management Plan concludes that dredged material from the Material Offloading Facility and the access channels is not suitable for marsh creation or nourishment at J.D. Murphree Refuge.

Recommendation: Provide a detailed explanation for the conclusion that this sediment is not suitable for marsh creation or nourishment. With containment, even highly unconsolidated clays and sediments with high organic content can effectively be used to nourish degraded marshes. Beneficial use of dredged material for marsh creation is encouraged as long as the material is of sufficiently high quality and is free of unacceptable levels of contamination. If the sediment quality is unknown, EPA recommends testing to determine notential contamination.

 Comment: The sediments from the vicinity of the proposed Supply Dock and the flotation/access channels have not been tested for contaminants. We believe there is sufficient uncertainty to support the need for testing.

Recommendation: We recommend testing the dredged material from these locations, and providing the data for review prior to issuance of the Corps' 404 permit.

 Comment: While the most recent data does not suggest sediment from the ship slip is contaminated, 2010 testing appeared to indicate the sediments contained a number of chlorinated pesticides in concentrations above ERM values.

Recommendation: In light of the conflicting data presented in the 2010 and 2015 testing, EPA recommends testing maintenance dredged material from the Ship Slip annually, or before each dredging event. This testing frequency could be reduced to every three years, if after three testing events, no exceedances of water quality criteria in the elutriate samples, and no exceedances of ERM concentrations have occurred, and data quality is acceptable for making such determinations.

Cumulative Impacts

FA4-23

Comment: Table 4.13.1-1 lists past, present, and reasonably foreseeable actions
considered in the cumulative impact analysis but does not include a number of actions

FA4-21

Section 4.4.3 has been revised to remove reference to direct impacts on wetlands. Mitigation for impacts on wetlands would be coordinated as part of Golden Pass' COE permit.

FA4-22

Golden Pass is continuing to coordinate with COE, EPA, and appropriate state agencies regarding its Dredge Material Management Plan and sediment testing needs. Requirements for sediment testing and beneficial use of dredged material would be assessed as part of Golden Pass' 404 permit.

FA4-23

The cumulative impacts analysis assesses historical actions as part of the baseline; therefore, the temporal extent of cumulative actions would start in the recent past and extend out for the expected physical operational service life of the projects considered. Additionally, we assess impacts for various spatial scales depending on the resource.

FA4 – U.S. Environmental Protection Agency (cont'd)

FA4-23 (cont.)	that we believe should be listed for their impacts to coastal wetlands. Examples include the Gulf Intracoastal Waterway, the railroad that affected the wetlands in the vicinity of the facility, the spoil bank at the facility site, Keith Lake Fish Pass, oil and gas producti (fluid withdrawal induced subsidence), and impoundment for wildlife management. Recommendations: EPA recommends that FERC include the above historic actions in their cumulative impacts analysis. In addition, we recommend that FERC analyze cumulative impacts to wetlands at multiple spatial scales, including Sabine Lake estuar the Texas coast, and the northwestern Gulf of Mexico coast.					s in the vicinity of I and gas production management. istoric actions in ERC analyze	
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FA5 – U.S. Army Corps of Engineers – Galveston District



DEPARTMENT OF THE ARMY

GALVESTON DISTRICT, CORPS OF ENGINEERS
P. O. BOX 1229
GALVESTON TX 77953-1229
May 16, 2016

ATTENTION C

Policy Analysis Branch

SUBJECT: Permit Application SWG-2004-02118 (formerly 23260), FERC Docket # CP14-517-000 and CP14-518-000; USACE Comments regarding Draft Environmental Impact Statement for Golden Pass Products' proposed Liquefaction and Pipeline Expansion

Kimberly D. Bose Federal Energy Regulatory Commission (FERC) 888 First Street, NE, Room 1A Washington, DC 20426

Dear Ms. Bose:

This is in reference to Golden Pass Products' (GPP) proposed Liquefied Natural Gas (LNG) Liquefaction and Pipeline Expansion Project (FERC Docket # CP14-517-000 and CP14-518-000). GPP is requesting permission to modify their permitted facilities to construct a Liquefaction facility (referred to herein as the Liquefaction Facility) and to construct a new segment of pipeline to transport domestically produced natural gas (referred to herein as the Pipeline Expansion). The Liquefaction Facility is located adjacent to the existing GPP LNG Terminal, in Jefferson County, Texas. The Pipeline Expansion originates at the Liquefaction Facility site, located adjacent to the Sabine Neches Waterway (SNWW), 10 miles south of Port Arthur, in Jefferson County, Texas, and includes work at multiple locations extending into Calcasieu Parish, Louisiana.

Pursuant to our ongoing coordination, the Galveston District Corps of Engineers (CESWG) submits the below comments regarding the Draft Environmental Impact Statement (DEIS) for Golden Pass Products' proposed Liquefaction and Pipeline Expansion Project.

General Comments on entire document:

FA5-1

The DEIS Executive Summary indicates that 381.4 acres of wetlands would be temporarily or permanently impacted by the proposed project. Table 4.4.2-1 indicates 383.9 acres will be permanently impacted. Updates to the DA Permit application, submitted to the Corps on July 7, 2104, indicates that 383.53 acres of wetlands will be permanently affected, and 15.71 acres will be temporarily affected, by construction. This information does not match and should be consistent throughout all sections of the DEIS, and the DA permit application.

FA5-1 The EIS has been updated with the most recent acreage numbers provided by Golden Pass.

FA5 - U.S. Army Corps of Engineers - Galveston District (cont'd)

-2-

Section 4.4, Wetlands:

FA5-2

1. Paragraph 2 of this section addresses Corps jurisdiction under Section 404 of the Clean Water Act. Section 10 of the Rivers and Harbors Act should also be discussed. This is because wetlands will also be affected by the proposed dredging of the Materials Offloading Facility. The Corps recommends adding a new paragraph, to include a discussion of Section 10 impacted wetlands. Thee Section 10 language in Section 1.2.2, can be used to explain this component of Corps jurisdiction and project impacts.

FA5-3

2. Section 4.4.3, Compensatory Mitigation, states that Golden Pass should submit a final Wetland Compensatory Mitigation Plan (CMP) to FERC by 16 May 2016. This timeline does not follow the Corps process, as the Corps may request revisions to the CMP after reviewing comments received during the Corps Public Notice Period. Our comment period closes on June 3, 2016, provided it is not extended. Therefore, the CMP could still be edited up 60 days or more, following June 3, 2016. The Corps recommends that this deadline be extended, so that Golden Pass may coordination their response to capture edits required by the Corps.

CESWG appreciates the opportunity to comment on the DEIS. Please reference the CESWG file number, SWG-2004-02118, in any future correspondence pertaining to this project. Please call me at 409-766-3105, or email me at felicity.a.dodson@usace.army.mil, if you have any questions.

Sincerely,

Felicity Dodson Regulatory Project Manager

Copy Furnish:

Eric Howard Federal Energy Regulatory Commission (FERC) 888 First Street, NE, Room 1A Washington, DC 20426

Richard Smith Golden Pass Products LLC Golden Pass Pipeline LLC 333 Clay Street, Suite 802 Houston, Texas 77002 FA5-2 Section 4.4 of the EIS has been updated to include a description of the Section 10 permit.

FA5-3 The recommendation in section 4.4.3 regarding the compensatory mitigation plan has been updated to recommend that the final plans be submitted prior to the start of construction.

FA5 – U.S. Army Corps of Engineers – Galveston District (cont'd)

-3-Mark Burley Golden Pass Products LLC Golden Pass Pipeline LLC 333 Clay Street, Suite 802 Houston, Texas 77002

FA6 - U.S. Congressman Randy K. Weber

20160526-5219 FERC PDF (Unofficial) 5/26/2016 3:30:57 PM

Congressman Randy K. Weber, Washington, DC. May 16, 2016

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, Docket Nos. CP14-517-000 and CP14-518-000

Dear Ms. Bose:

FA6-1

On March 25, 2016, the Federal Energy Regulatory Commission (FERC) issued a Notice of Availability of the Draft Environmental Impact Statement (DEIS) for the proposed Golden Pass LNG Export Project. I am submitting these comments in strong support of this \$10 billion investment in the 14th Congressional District of Texas.

The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this investment in our community. I agree with the statement's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts.

This project would create thousands of jobs and billions of dollars of investment in our economy. Specifically, the five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, including approximately 9,000 in construction. The decadeslong operations phase could create some 3,800 direct and indirect permanent jobs for a generation. Over the life of the project, this \$10 billion of private investment could drive about \$31 billion in U.S. economic gains and \$4.6 billion in total tax revenue for our nation at local, state and national levels.

Golden Pass' track record of unwavering commitment to safety, environment, and community is a strong indicator of how they will build and operate this new export facility. During Hurricane Ike, Golden Pass stood firm with Sabine Pass, helping rebuild the community. Golden Pass has made lasting investments in the conservation of local habitat by donating more than 800 acres of forested wetlands in Texas and Louisiana for wildlife protection and ecosystem restoration. And Golden Pass has a central culture of safety, with more than 6 million work-hours - more than 5 years - without a lost-time injury.

Without a doubt, this important investment in my community will yield lasting economic benefits for my state and the nation with an existing industrial footprint that minimizes the impact on our environment. The positive economic and community benefits of this major infusion of new private capital cannot be overstated. I urge the FERC to look favorably

FA6-1 The commentor's support of the Project is noted.

FA6 – U.S. Congressman Randy K. Weber (cont'd)

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FA6-1	on the Golden Pass DEIS and publish the Final EIS as scheduled and issue the final order as soon as possible.
	Sincerely,
	Randy K. Weber Member of Congress

SA1 – Louisiana Department of Wildlife and Fisheries

	Jo	OHN BEL EDWARDS State of Montstana Charles J. Melancon Governor Department of Wildlife and Fisheries Secretary
	April 19	9, 2016
	Federal 888 Fir	erly D. Bose, Secretary al Energy Regulatory Commission irst St., N.E., Room 1A ngton, DC 20426
		Docket Number: CP14-517-000 and CP14-518-000 Applicant: Golden Pass Products, LLC and Golden Pass Pipeline, LLC Notice Date: March 25, 2016
	Dear M	Ms. Bose:
	referen approx	rofessional staff of the Louisiana Department of Wildlife and Fisheries has reviewed the above need notice for the proposed Golden Pass Liquefied Natural Gas Export Project, impacting simulately 2 acres of wetlands through the installation of a new pipeline and compressor stations, in sieu Parish, Louisiana. Based upon this review, the following has been determined:
SA1-1		In an effort to reduce impacts, LDWF recommends that temporary pipeline right-of-ways not exceed 75-feet in width and that permanent pipeline right-of-ways not exceed 30-feet in width within wetlands.
SA1-2		The applicant shall implement adequate erosion/sediment control measures to insure that no sediments or other activity related debris are allowed to enter any adjacent wetlands. Accepted measures include the proper use of silt fences, straw bales, seeding or sodding of exposed soils or other Environmental Protection Agency construction site storm water runoff control best management practices. These measures shall be installed prior to the commencement of construction activities and maintained until the project is complete.
SA1-3	1	LDWF recommends that all forested vegetation cleared during construction activities be hauled to a non-wetland disposal location, or chipped and spread on site in a manner that is beneficial to the surrounding environment (i.e., placed in thin layers not to exceed 4 inches).
SA1-4		Ensure that the applicant provides adequate and appropriate mitigation for impacts to wetland functions.
		P.O. BOX 98000 * BATON ROUSE, LOUISIANA 70898-9000 * PHONE (225) 765-2800 AN ECUAL OPPORTUNITY EMPLOYER

	wetlands except where they have requested a variance (see table 4.3-4 in the EIS). Based on Golden Pass' justifications, we determined that the variances requested were acceptable.
SA1-2	Golden Pass would follow the measures outlined in our Plan and Procedures, including slope breakers, trench plugs, and sediment barriers.
SA1-3	Golden Pass would dispose of cleared vegetation in accordance with our Plan and application of federal, state, and local regulations.
SA1-4	See response to comment FA4-9 regarding Golden Pass' wetland mitigation plans.

Golden Pass would maintain a 75-foot-wide right-of-way through

SA1-1

SA1 – Louisiana Department of Wildlife and Fisheries (cont'd)

Page 2 Applica April 19	tion Number: CP14-517-000 and CP14-518-000 0, 2016
recomm	uisiana Department of Wildlife and Fisheries appreciates the opportunity to review and provide tendations to you regarding this proposed activity. Please do not hesitate to contact Habitat biologist Zachary Chain at 225-763-3587 should you need further assistance.
Sincere Kyle F.	Balkum st Director
zc	s. Director
c:	EPA Marine & Wetlands Section USFWS Ecological Services
	-

SA2 - Texas Senator Brandon Creighton

20160517-5000 FERC PDF (Unofficial) 5/16/2016 5:24:14 PM Senator Creighton, Beaumont, TX. May 16, 2016 Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426 Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, Docket Nos. CP14-517-000 and CP14-518-000 Dear Ms. Bose: On March 25, 2016, the FERC issued a Notice of Availability of the Draft SA2-1 Environmental Impact Statement (DEIS) for the proposed Golden Pass LNG Export Project (referenced above). I would like to submit these comments in support of the proposed \$10B project. The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this welcomed expansion to our area. I agree with the report's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts. Simply put, this project would create opportunity- thousands of jobs and billions of dollars of investment in local, state and U.S. economies: The five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, some 9,000 in construction. The decades-long operations phase could create some 3,800 direct and indirect permanent jobs for a generation.

Over the life of the project, this \$10B investment could drive about \$31 billion in U.S. economic gains (gross product) and \$4.6 billion in taxes for the U.S at local, state and national levels. The positive economic and community benefits of this major infusion of new private capital cannot be overstated. What's more, Golden Pass' track record of unwavering commitment to safety, environment, and community is a strong indicator of how they will build and operate the new project. During Hurricane Ike, Golden Pass stood firm with Sabine Pass, helping rebuild the community. Golden Pass has made lasting investments in the conservation of local habitat by donating more than 800 acres of forested wetlands in Texas and Louisiana for wildlife protection and ecosystem restoration. And Golden Pass has a central culture of safety, with more than 6 million work-hours - more than 5 years - without a lost-time injury. In closing, I urge the FERC to look favorably on the Golden Pass DEIS and publish the Final EIS as scheduled and issue the final order as soon as possible. Sincerely, Brandon Creighton

SA2-1 The commentor's support for the Project is noted.

SA3 – Texas Parks and Wildlife Department

20160517-5039 FERC PDF (Unofficial) 5/16/2016 6:25:24 PM



May 16, 2016

RE:

Life's better outside."

VIA ELECTRONIC FILING

Commission

The Honorable Kimberly D. Bose Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

OEP/DG2E/GAS 2

T. Dan Friedkin Chairman Houston

Ralph H. Duggir Vice-Chairma Fort Wort

Anna B. Galo Laredo Bill Jones

Bill Jone Aust

San Antonio James H. Lee Houston

Houston S. Reed Morian

Dick Scott Wimberley Kelcy L. Warren Dallas

Lee M. Bass Chairman-Emeritus Fort Worth Dear Secretary Bose:

Texas Parks and Wildlife Department (TPWD) has reviewed the Draft Environmental Impact Statement (DEIS) dated March 2016, for the Proposed Golden Pass LNG Export Project for activities within Jefferson and Orange Counties, Texas. The purpose of this project is to export liquefied natural gas (LNG). Golden Pass proposes to construct and operate onshore natural gas liquefaction and associated facilities to allow the export of LNG in Texas, and to expand, own, operate and maintain a new interstate natural gas pipeline, three new compressor stations and ancillary facilities in Texas and Louisiana.

Golden Pass Products LLC and Golden Pass Pipeline LLC;

Docket Nos. CP14-517-000 and CP14-518-000

Draft Environmental Impact Statement for the Proposed Golden Pass LNG

Carter P. Smith Executive Director Below is the list of proposed actions listed within the DEIS:

- Enable bi-directional flow of natural gas along the Golden Pass Pipeline system and allow natural gas to be received from domestic sources.
- Expand the existing Golden Pass Import Terminal to receive, treat, and liquefy domestic natural gas for export from the existing marine facility and
- Load LNG into vessels berthed at the existing marine facility to transport LNG worldwide.

The proposed pipeline expansion consists of constructing approximately 2.6 miles of new pipeline between milepost (MP) 63 and MP 66 within Louisiana, constructing three new compressor stations at MP 1 and MP 33 in Texas and a compressor station at MP 66 in Louisiana. The proposed Terminal Expansion is located on a 919-acre site along State Highway 87 and the Sabine Neches Waterway (SNWW), about 2 miles north of the community of Sabine Pass, Texas.

TPWD has reviewed information in the DEIS for possible impacts to fish and wildlife resources of the State and offers the following comments regarding the proposed impacts.

4200 SMITH SCHOOL ROAD AUSTIN, TEXAS 78744-3291 512.389.4800 www.tpwd.texas.gov

To manage and conserve the natural and cultural resources of Texas and to provide hunting, fishing and outdoor recreation opportunities for the use and enjoyment of present and future generations.

SA3 – Texas Parks and Wildlife Department (cont'd)

20160517-5039 FERC PDF (Unofficial) 5/16/2016 6:25:24 PM

Ms. Kimberly D. Bose (FERC) May 16, 2016 Page 2 of 8

4.4 Wetlands

SA3-1

Wetland habitat exists within the proposed project area including palustrine emergent marsh (PEM), palustrine scrub-shrub (PSS), palustrine forested (PFO), and estuarine emergent wetland (EEM) as described in the DEIS. Emergent, forested, and shrub-scrub wetlands provide high-quality habitat for a variety of small and medium-sized mammals, amphibians and avian species. These wetlands also serve to reduce erosion and intercept rainwater runoff, removing excess nutrients and bacteria from surface waters and filtering and collecting sediment from runoff thereby improving water quality.

Golden Pass proposes to permanently impact 382.3 acres of PEM, 1.2 acres of PSS, 0.4-acre of PFO, and 0.1-acre of EEM wetland habitat for all construction activities related to the proposed project within Texas and Louisiana. All but 2.3 acres of PEM and 0.1-acre of EEM wetland habitat will be in Jefferson and Orange Counties in Texas.

Golden Pass proposes to mitigate for impacts to PEM wetland habitat by developing a Permittee Responsible Mitigation Plan which includes restoration of approximately 721 acres of marsh through the beneficial use of dredged material at the Salt Bayou Unit of the J.D. Murphree Wildlife Management Area (WMA) in Jefferson County. In addition, Golden Pass proposes to mitigate for the remaining 1.4 acres of PSS and 0.4-acre of PFO habitat by purchasing credits at the Pineywoods Mitigation Bank in Polk County, Texas.

Recommendations: Continue coordination with TPWD, United States Fish and Wildlife Service (USFWS), the U.S. Army of Corps of Engineers, and other resource agencies regarding the Draft Mitigation Plans for both the Facility Expansion and the Compressor Station at MP 33 in Jefferson and Orange Counties, Texas.

4.6 Wildlife and Aquatic Resources

SA3-2

The Terminal Expansion would include the construction of a Supply Dock along the western bank of the SNWW, about 2,000 feet east of the existing Ship Slip. The Supply Dock would consist of a barge slip extending about 400 feet into the current shoreline, with a width of about 240 feet, including a 350-foot-long bulkhead parallel to the shoreline, extending to the east of the barge slip. Golden Pass estimates the construction of the Supply Dock and access channels would require dredging of about 455,450 cubic yards of sediments.

Golden Pass has coordinated with TPWD regarding the majority of the project plans and associated impacts, including 1) Alternatives Analysis, 2) Draft Compensatory Mitigation Plans for both the Terminal Expansion and the

SA3-1 Golden Pass is continuing to coordinate with the appropriate federal and state agencies regarding its wetland mitigation plan. We have updated our recommendation in section 4.4 to recommend that the final mitigation plans be submitted prior to the start of construction.

SA3-2 See response to comment FA4-22 regarding the Dredged Material Management Plan and sediment sampling.

SA3 – Texas Parks and Wildlife Department (cont'd)

20160517-5039 FERC PDF (Unofficial) 5/16/2016 6:25:24 PM

Ms. Kimberly D. Bose (FERC) May 16, 2016

Page 3 of 8

SA3-2 (cont.) Compressor Station at MP 33, and 3) Sediment sampling and analysis results for the existing Ship Slip conducted in 2010 and 2015.

Although TPWD has reviewed the 2010 sediment sampling results from the original dredging of the Ship Slip and the 2015 sediment sampling and analysis results from the maintenance dredging within the existing Ship Slip, Golden Pass has not provided TPWD with results or analysis for any sediment sampling the newly proposed dredging areas within the SNWW associated with the construction of the Supply Dock and float channels.

Recommendations: Golden Pass should conduct and prepare a Sediment Sampling and Analysis Report for the newly proposed Supply Dock and float channel areas similar in effort to the 2015 Golden Pass Sediment Sampling and Analysis Report for the Golden Pass Product LNG Terminal Ship Slip. Golden Pass should provide the report to TPWD and other resource agencies for review and comment prior to issuance of the Final EIS (FEIS).

4.6.2.1 Migratory Birds

SA3-3

Migratory Bird Treaty Act (MBTA)

The MBTA prohibits taking, attempting to take, capturing, killing, selling/purchasing, possessing, transporting, and importing of migratory birds, their eggs, parts and nests, except when specifically authorized by the Department of the Interior. This protection applies to most native bird species, including ground nesting species. The USFWS Migratory Bird Office can be contacted at (505) 248-7882 for information on potential impacts to migratory birds.

The DEIS states that Golden Pass will continue to consult with the USFWS regarding the project's impacts on migratory birds.

Recommendations: The measures that follow should be included in the FEIS. Any removal of vegetation (including both construction and subsequent right-of-way (ROW) maintenance activities) should be avoided during the primary migratory bird nesting season, March through August, to avoid adverse impacts to this group. If clearing vegetation during the nesting season is unavoidable, the construction area should be surveyed to ensure that no nests with eggs or young will be disturbed by construction. If nests are observed during surveys, an area of buffer vegetation no less than 25-feet in all directions should remain around the nest until young have fledged. Any vegetation (trees, shrubs, and grasses) where occupied nests are located should not be disturbed until the eggs have hatched and the young have fledged. If there are abandoned nests in the area these nests should be removed to prevent reoccupation. Raptor nesting occurs late winter through early spring; construction activities should be excluded from a minimum zone of 300 feet surrounding any raptor nest during the period of February 1 through July 15.

SA3-3

As discussed in section 4.6.2.1, due to the lack of migratory birds or nests during surveys conducted in 2013, Golden Pass is not planning on limiting vegetation clearing to outside of the recommended windows. However, Golden Pass would conduct pre-construction surveys during nesting season to identify any migratory bird nests or rookeries. If migratory birds are present, Golden Pass would contact the U.S. Fish and Wildlife Service (FWS) for guidance as to the appropriate next steps.

SA3 – Texas Parks and Wildlife Department (cont'd)

20160517-5039 FERC PDF (Unofficial) 5/16/2016 6:25:24 PM

Ms. Kimberly D. Bose (FERC) May 16, 2016 Page 4 of 8

4.6.2.3 Colonial Nesting Waterbirds

SA3-4

In general, nesting dates for herons and egrets range from early February to late August in Texas, depending on the species. Great Blue Herons (GBHE) are usually the first to nest. If nesting GBHE are disrupted and abandon nesting, other species of herons and egrets may not attempt to nest at the rookery that year. A reference that indicates nesting dates for Texas species within rookeries can be found in Nuisance Heronries in Texas: http://www.tpwd.texas.gov/publications/pwdpubs/media/pwd bk w7000 0134.pdf.

The DEIS states that Golden Pass has not identified any rookeries within the project area during its survey efforts. However, should a rookery be identified during surveys, Golden Pass should minimize impacts to the rookery. TPWD strongly encourages the measures outlined below be included in the FEIS.

Recommendation: The measures that follow should be included in the FEIS. 1. If rookeries are encountered, Golden Pass should avoid/minimize disturbance during nesting. A primary buffer area of 300 meters (984 feet) from the rookery periphery to avoid any vegetation clearing as a protection measure to protect the rookery species and their habitat. Pipeline construction and permanent easements that would encroach within this buffer area should be re-routed, adjusted, or narrowed to avoid clearing within this buffer area. Utilizing areas that have already been cleared within this buffer area may be acceptable depending on site-specific characteristics. Additionally, human foot traffic or machinery use should not occur within this buffer area during the nesting season.

2. During the breeding season, Golden Pass should allow a secondary buffer area to avoid clearing activities or construction using heavy machinery during the breeding season (courting and nesting). If rookeries are identified in the project area and details regarding the rookeries are provided, TPWD staff can discuss the ability to feasibly meet the recommended setback distances. Details to aid in decision making include 1) the size of the rookery (number of nests and area of rookery), 2) species utilizing the rookery, 3) distance of rookery periphery from the construction area, and 4) characteristics regarding the habitat within and surrounding the rookery.

4.6.2.4 Bald Eagle

SA3-5

Bald and Golden Eagle Protection Act (BGEPA)

Although the Bald Eagle (Haliaeetus leucocephalus) is no longer federally-listed threatened, this species remains state-listed threatened and receives protection under the BGEPA. The BGEPA prohibits anyone, without a permit issued by the

SA3-4

As discussed in section 4.6.2.3, Golden Pass would conduct preconstruction surveys and maintain a 1,000-foot buffer around any rookeries identified. Golden Pass would continue to coordinate with FWS and Texas Parks and Wildlife Department (TPWD) if any rookeries are found during pre-construction surveys to identify any additional mitigation measures that may be needed.

SA3-5

Golden Pass would continue to coordinate with FWS and TPWD if any rookeries are found during pre-construction surveys to identify any additional mitigation measures that may be needed.

SA3 – Texas Parks and Wildlife Department (cont'd)

20160517-5039 FERC PDF (Unofficial) 5/16/2016 6:25:24 PM

Ms. Kimberly D. Bose (FERC) May 16, 2016 Page 5 of 8

SA3-5 (cont.)

Secretary of the Interior, from "taking" Bald Eagles, including their parts, nests, or eggs. The BGEPA provides criminal penalties for persons who take, possess, sell, purchase, barter, offer to sell, purchase or barter, transport, export or import, at any time or any manner, any Bald Eagle ... [or any Golden Eagle], alive or dead, or any part, nest, or egg thereof. The BGEPA defines "take" as pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb.

In addition to immediate impacts, this definition also covers impacts that result from human-caused alterations initiated around a previously used nest site during a time when eagles are not present, if upon the eagles return, such alterations agitate or bother an eagle to a degree that injures an eagle or substantially interferes with normal breeding, feeding, or sheltering habits and causes, or is likely to cause, a loss of productivity or nest abandonment. Should a Bald Eagle or a Bald Eagle nest be observed in the project area, Golden Pass should adhere to buffer requirements established in USFWS National Bald Eagle Management Guidelines.

Recommendation: TPWD supports Golden Pass's commitment to follow the National Bald Eagle Management Guidelines and recommends that project work sites, including temporary work spaces, in the vicinity of lakes and rivers be assessed for nesting, foraging, or roosting habitat for this species. If potential impacts to the Bald Eagle are anticipated, TPWD recommends consultation with USFWS – Houston Ecological Services at (281) 286-8282 regarding compliance with the BGEPA and the TPWD Wildlife Office (361) 576-0022 because the Bald Eagle is state-listed threatened species.

4.7 Threatened and Endangered Species

4.7.1 Federal Listed Threatened and Endangered Species

SA3-6

Endangered Species Act (ESA)

Federally-listed animal species and their habitat are protected from "take" on any property by the ESA. Take of a federally-listed species can be allowed if it is "incidental" to an otherwise lawful activity and must be permitted in accordance with Section 7 or 10 of the ESA. Federally-listed plants are not protected from take except on lands under federal/state jurisdiction or for which a federal/state nexus (i.e., permits or funding) exists. Any take of a federally-listed species or its habitat without the required allowance from USFWS is a violation of the ESA.

In section 4.7 in the DEIS it states that the proposed project would have "no effect" or "not likely to adversely affect" any federal- or state-listed threatened or endangered species. TPWD notes that, although the whooping crane is not listed in Texas Natural Diversity Database (TXNDD) for Jefferson and Orange Counties as a federal- or state-listed endangered or threatened species, the proposed project site occurs within a migration corridor and includes potential stopover habitat for whooping crane (Grus americana).

SA3-6 Golden Pass is continuing to coordinate with FWS and TPWD regarding any potential impacts to Bald Eagles.

SA3 – Texas Parks and Wildlife Department (cont'd)

	Ms. Kimberly D. Bose (FERC) May 16, 2016 Page 6 of 8
SA3-6 (cont.)	Recommendation: Disturbance to whooping cranes should be avoided. Golden Pass should inform employees and contractors of the potential for the federally-listed endangered whooping crane to occur in the area. Any work should immediately cease and coordination with the USFWS should occur if whooping cranes are observed.
	4.7.1.4 Sea Turtles
SA3-7	Five species of federally endangered sea turtles could possibly inhabit the waters near the Terminal Expansion within the SNWW. Although nesting habitat is currently not present within the project area, impacts to these species could occur due to vessel strikes in the SNWW. TPWD supports commitments to adhere to the NOAA's Fisheries Vessel Strike Avoidance Measures and Reporting for Mariners.
	Recommendations: Any observation of these species should be reported to the Sea Turtle Hotline at 866-Turtle-5 (866-887-8535)
	4.7.2 State-listed and Other Special-status Species
SA3-8	Section 68.015, Parks and Wildlife Code – State-listed Species
	Section 68.015 of the Parks and Wildlife Code regulates state-listed species. Please note that there is no provision for the capture, trap, take, or kill (incidental or otherwise) of state-listed species. A copy of TPWD Guidelines for Protection of State-Listed Species can be found at http://www.tpwd.texas.gov/huntwild/wildlife_diversity/habitat assessment/media/tpwd_statelisted_species.pdf. This document includes a list of penalties for take of state-listed species. For purposes of relocation, surveys, monitoring, and research, terrestrial state-listed species may only be handled by persons permitted through the TPWD Wildlife Permits Office (also http://www.tpwd.state.tx.us/business/permits/land/wildlife/research/). For the above-listed activities that involve aquatic species please contact TPWD (Mr. Winston Denton, 281-534-0138).
	Based on a review of the project area, the following state-listed threatened species could be impacted by the project: Bald Eagle (see BGEPA above) Reddish Egret White-faced ibis Alligator snapping turtle Texas diamondback terrapin Northern Scarlet snake Timber rattlesnake Texas Horned Lizard

SA3-7 Golden Pass is continuing to coordinate with federal, state, and local agencies regarding any species of concern and associated mitigation measures.

SA3-8 Golden Pass is continuing to coordinate with federal, state, and

may be required.

local agencies regarding any additional mitigation measures that

SA3 – Texas Parks and Wildlife Department (cont'd)

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Ms. Kimberly D. Bose (FERC) May 16, 2016 Page 7 of 8

SA3-8 (cont.)

Recommendations:

- An on-the-ground survey by a qualified biologist should be performed
 in areas of suitable habitat to determine if state-listed species are present
 during construction activities. If present, Golden Pass should
 incorporate actions into the project to avoid impacts to these species. If
 the presence of a biological monitor during construction is not feasible,
 state-listed threatened species observed during construction should be
 allowed to safely leave the site or be relocated by a permitted individual
 to a nearby area with similar habitat that would not be disturbed during
 construction.
- For state-listed bird species TPWD recommends employing strategies
 outlined above regarding MBTA compliance and rookeries. Please be
 aware that species not occurring during site surveys may utilize the
 habitat within the project area at times beyond those during which the
 survey was conducted, such as seasonally or nocturnally. Additional
 information regarding BMPs is available at http://www.tpwd.
 texas.gov/huntwild/wild/wild/wild/ie_diversity/habitat_assessment/tools.ph
 tml.
- Because snakes are generally perceived as a threat and killed when
 encountered during clearing or construction, TPWD recommends
 Golden Pass inform employees and contractors of the potential for
 snakes to occur in the study area. Contractors should be advised to
 avoid impacts to snakes and allow all native snakes to safely leave the
 premises.
- Any translocations of reptiles be the minimum distance possible no greater than one mile and preferably within 100-200 yards from the initial encounter location. As a reminder, for purposes of relocation, surveys, monitoring, and research, terrestrial state-listed species may only be handled by persons permitted through the TPWD Wildlife Permits Office, http://www.tpwd. texas.gov/business/permits/land/ wildlife/research/.

Rare Resources

SA3-9

Although not listed in the DEIS, special features, natural communities, and rare species that are not listed as threatened or endangered are tracked in the TXNDD. Although not afforded protection by the ESA or Parks and Wildlife Code Section 68.015, TPWD actively promotes rare species conservation. TPWD considers it important to evaluate and if necessary, minimize impacts to rare species and their habitat to reduce the likelihood of endangerment.

The TPWD county lists for rare species may be obtained from the website: http://www.tpwd.texas.gov/landwater/land/maps/gis/ris/endangered species. These lists provide information regarding rare species that have potential to occur within each county. Rare species could potentially be impacted if suitable habitat is present at or near the project site.

SA3-9 Golden Pass is continuing to coordinate with state-agencies regarding state-listed species and any appropriate mitigation measures.

State Agencies Comments

L-34

STATE AGENCIES

SA3 – Texas Parks and Wildlife Department (cont'd)

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Ms. Kimberly D. Bose (FERC) May 16, 2016

SA3-9 (cont.) The TXNDD revealed the following known occurrences of species of concern, special features, and natural communities within five miles of the project area in Texas:

- · Texas windmill-grass (Chloris texensis)
- Texas screwstem (Bartonia texana)
- Threeflower broomweed (Thurovia triflora)
- · Colonial Waterbird Rookery
- Coastal Live Oak-Pecan Series (Quercus virginiana-Carya illnoensis Series)
- Gammagrass-Switchgrass Series (Tripsacum dactyloides- Panicum virgatum Series)
- Little-Bluestem- Brownseed Paspalum Series (Schizachyrium scoparium-Paspalum plicatulum Series)
- · Vertisol Coastal Prairie Series

Recommendation: Potential adverse impacts should be identified and conservation measures to offset harm should be incorporated into the project mitigation plan. If rare, threatened, and endangered species or special features are to be adversely affected, TPWD should be contacted for further coordination.

Thank you for consideration of our comments. Questions can be directed to Ms. Heather Biggs (281-534-0133) in Dickinson, Texas.

Cinacka

Rebecca Hensley

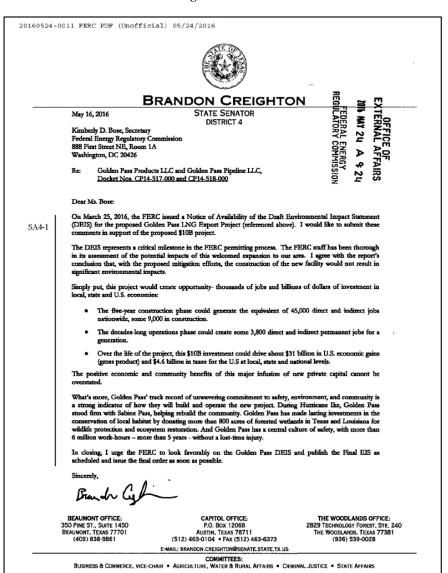
Regional Director, Ecosystem Resources Program

Coastal Fisheries Division

RH:HB:RL

State Agencies Comments

SA4 - Texas Senator Brandon Creighton



SA4-1 The commentor's support for the Project is noted.

STATE AGENCIES

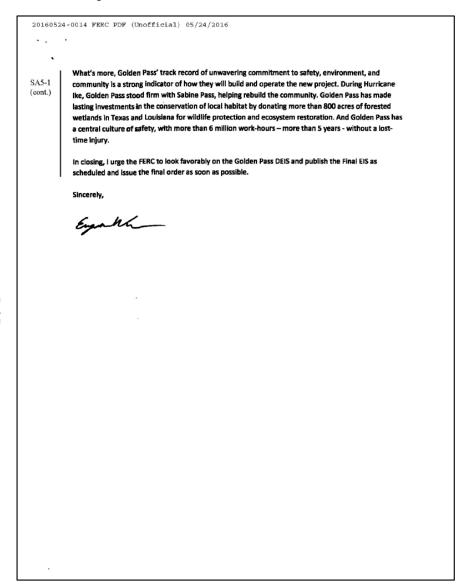
SA5 – Texas Representative Gene Wu

20160524-0014 FERC PDF (Unofficial) 05/24/2016 TEXAS HOUSE OF REPRESENTATIVES OFFICE OF EXTERNAL AFFAIRS 2016 NAY 24 A 9: 24 REGULATORY COMMISSION Gene Wu May 16, 2016 DISTRICT 137 Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426 Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, Docket Nos. CP14-517-000 and CP14-518-000 Dear Ms. Bose: On March 25, 2016, the FERC issued a Notice of Availability of the Draft Environmental Impact SA5-1 Statement (DEIS) for the proposed Golden Pass LNG Export Project, referenced above. I would like to submit these comments in support of the proposed \$10B project. The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this welcomed expansion to our area. I agree with the report's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts. Simply put, this project would create opportunity- thousands of jobs and billions of dollars of investment in local, state and U.S. economies: The five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, some 9,000 in construction. The decades-long operations phase could create some 3,800 direct and indirect permanent jobs Over the life of the project, this \$10B investment could drive about \$31 billion in U.S. economic gains (gross product) and \$4.6 billion in taxes for the U.S at local, state and national levels. The positive economic and community benefits of this major infusion of new private capital cannot be overstated. CAPITOL: P.O. Box 2910 • Austin, TX 78768-2910 • (512) 463-0492 • FAX: (512) 463-1182 DISTRICT: 6500 ROOKIN, BLDG. C . HOUSTON, TX 77074 . (713) 271-3900

SA5-1 The commentor's support for the Project is noted.

STATE AGENCIES

SA5 – Texas Representative Gene Wu (cont'd)



CO1-1

COMPANY AND ORGANIZATIONS

CO1 – Black Pearl Exploration



14531 FM 529, Suite 150, Houston, Texas 77095 PH: 281-855-4755

5/10/16

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room IA Washington, DC 20426

Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, <u>Docket Nos. CP14-517-000 and CP14-518-000</u>

Dear Ms. Bose:

On March 25, 2016, the FERC issued a Notice of Availability of the Draft Environmental Impact Statement (DEIS) for the proposed Golden Pass LNG Export Project (referenced above). I would like to submit these comments in support of the proposed \$10B project.

The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this welcomed expansion to our area. I agree with the report's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts.

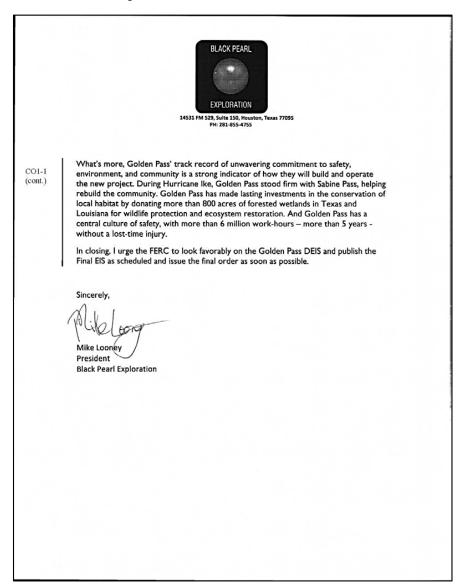
Simply put, this project would create opportunity- thousands of jobs and billions of dollars of investment in local, state and U.S. economies:

- The five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, some 9,000 in construction.
- The decades-long operations phase could create some 3,800 direct and indirect permanent jobs for a generation.
- Over the life of the project, this \$10B investment could drive about \$31 billion in U.S. economic gains (gross product) and \$4.6 billion in taxes for the U.S at local, state and national levels.

The positive economic and community benefits of this major infusion of new private capital cannot be overstated.

CO1-1 The commentor's support for the Project is noted.

CO1 – Black Pearl Exploration (cont'd)



CO2 - Consumer Energy Alliance



May 9, 2016

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, Docket Nos. CP14-517-000 and CP14-518-000

Dear Ms. Bose:

The Federal Energy Regulatory Commission (FERC) issued a Notice of Availability of the Draft Environmental Impact Statement (DEIS) on March 25, 2016 for the proposed Golden Pass LNG Export Project referenced above. I would like to submit these comments on behalf of the Consumer Energy Alliance (ECA) in support of the proposed \$108 project.

Founded in 2006, CEA is a nonpartisan, nonprofit organization advocating for a balanced energy policy and responsible access to resources. CEA represents virtually every sector of the U.S. economy – from the iron and steel industry to truckers, airlines, agriculture, restaurants, chemicals, small business and every day consumers – each of which has a vested interest in North American energy policies, energy security and long-term price and supply stability. CEA has almost 300 affiliate members and more than 400,000 individual members throughout the United States.

CO2-1

CEA supports responsible development, transportation and utilization of domestic energy resources, including natural gas. CEA believes that the Golden Pass LNG project will be good for the long-term viability and sustainability of America's natural gas resources.

The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this expansion. We agree with the report's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts.

This project would create opportunity- thousands of jobs and billions of dollars of investment in local, state and U.S. economies:

- The five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, some 9,000 in construction.
- The decades-long operations phase could create some 3,800 direct and indirect permanent jobs for a generation.
- Over the life of the project, this \$10B investment could drive about \$31 billion in U.S. economic gains (gross product) and \$4.6 billion in taxes for the U.S at local, state and national levels.

2211 Norfolk Street | Suite 410 | Houston, TX 77098 | 713.337.8800 consumerenergyalliance.org CO2-1 The commentor's support for the Project is noted.

CO2 – Consumer Energy Alliance (cont'd)



CO2-1 (cont.) This project provides many positive economic and community benefits through a major infusion of new private capital into the region and to our country. We believe it will be beneficial to our economy and to consumers large and small.

Golden Pass has an excellent track record of unwavering commitment to safety, environment, and community is a strong indicator of how they will build and operate the new project. During Hurricane lke, Golden Pass stood firm with Sabine Pass, helping rebuild the community. Golden Pass has made lasting investments in the conservation of local habitat by donating more than 800 acres of forested wetlands in Texas and Louisiana for wildlife protection and ecosystem restoration.

And Golden Pass has a central culture of safety, with more than 6 million work-hours – more than 5 years - without a lost-time injury.

I urge the FERC to look favorably on the Golden Pass DEIS and publish the Final EIS as scheduled and issue the final order as soon as possible.

Sincerely,

D-JUB

David Holt President Consumer Energy Alliance

2211 Norfolk Street | Suite 410 | Houston, TX 77098 | 713.337.8800 consumerenergyalliance.org

CO3 - Sealark Investments, Inc.

Sealark Investments, Inc. 4900 Woodway, Suite 800 Houston, Texas 77056-1809 713-552-9192

March 9, 2016

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, <u>Docket Nos. CP14-517-000 and CP14-518-000</u>

Dear Ms. Bose:

I am writing in support of the Golden Pass project. On March 25, 2016, the FERC issued a Notice of Availability of the Draft Environmental Impact Statement (DEIS) for the proposed Golden Pass LNG Export Project (referenced above). I would like to submit these comments in support of the proposed \$10B project.

CO3-1

The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this welcomed expansion to our area. I agree with the report's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts.

Simply put, this project would create economic opportunity, thousands of jobs, and billions of dollars of investment in local, state and U.S. economies:

- The five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, some 9,000 in construction.
- The decades-long operations phase could create some 3,800 direct and indirect permanent jobs for a generation.
- Over the life of the project, this \$10B investment could drive about \$31 billion in U.S. economic gains (gross product) and \$4.6 billion in taxes for the U.S at local, state and national levels.

The positive economic and community benefits of this major infusion of new private capital cannot be overstated.

Additionally, Golden Pass' track record of unwavering commitment to safety, environment, and community is a strong indicator of how they will build and operate the new project. During Hurricane Ike, Golden Pass stood firm with Sabine Pass, helping rebuild the community. Golden Pass has made lasting investments in the conservation of local habitat by donating more than 800 acres of forested wetlands in Texas and Louisiana for wildlife protection and ecosystem restoration. And Golden Pass has a central culture of safety, with more than 6 million work-hours – more than 5 years - without a lost-time injury.

CO3-1 The commentor's support for the Project is noted.

CO3 – Sealark Investments, Inc. (cont'd)

CO3-1 (cont.)	In closing, I urge the FERC to look favorably on the Golden Pass DEIS and publish the Final EIS as scheduled and issue the final order as soon as possible.
	Sincerely, History
	John F. Schwarz, Jr., President

CO4 - Southgate Resources, LLC

SOUTHGATE RESOURCES, LLC

May 9, 2016

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, Docket Nos. CP14-517-000 and CP14-518-000

Dear Ms. Bose:

On March 25, 2016, the FERC issued a Notice of Availability of the Draft Environmental Impact Statement (DEIS) for the proposed Golden Pass LNG Export Project (referenced above). I would like to submit these comments on behalf of Southgate Resources, LLC in support of the proposed \$10B project.

As a small consulting company to the energy industry, our company is feeling the impacts of the current downturn in the oil and gas sectors. The continued viability of domestic oil and gas production is absolutely critical to the future of our business. The Golden Pass LNG project will be good for the long-term viability and sustainability of America's natural gas resources.

CO4-1

The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this welcomed expansion to our area. I agree with the report's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts.

Simply put, this project would create opportunity- thousands of jobs and billions of dollars of investment in local, state and U.S. economies:

- The five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, some 9,000 in construction.
- The decades-long operations phase could create some 3,800 direct and indirect permanent jobs for a generation.
- Over the life of the project, this \$10B investment could drive about \$31 billion in U.S. economic
 gains (gross product) and \$4.6 billion in taxes for the U.S at local, state and national levels.

The positive economic and community benefits of this major infusion of new private capital cannot be overstated.

CO4-1 The commentor's support for the Project is noted.

CO4 - Southgate Resources, LLC (cont'd)

CO4-1 (cont.) What's more, Golden Pass' track record of unwavering commitment to safety, environment, and community is a strong indicator of how they will build and operate the new project. During Hurricane Ike, Golden Pass stood firm with Sabine Pass, helping rebuild the community. Golden Pass has made lasting investments in the conservation of local habitat by donating more than 800 acres of forested wetlands in Texas and Louisiana for wildlife protection and ecosystem restoration. And Golden Pass has a central culture of safety, with more than 6 million work-hours – more than 5 years - without a lost-time injury.

In closing, I urge the FERC to look favorably on the Golden Pass DEIS and publish the Final EIS as scheduled and issue the final order as soon as possible. Thank you for your attention.

Sincerely,

Jack Belcher

President

Southgate Resources, LLC

2213 Devonshire Houston, TX 77019

CO5 – Sterling Integrated Solutions, LLC

STERLING INTEGRATED SOLUTIONS, LLC

2211 Portwest Drive, Suite 100, Houston, Texas 77024/Phone: 713-444-8282

5/9/16

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room IA Washington, DC 20426

Re: Golden Pass Products LLC and Golden Pass Pipeline LLC, <u>Docket Nos. CPI4-517-000 and CPI4-518-000</u>

Dear Ms. Bose:

On March 25, 2016, the FERC issued a Notice of Availability of the Draft Environmental Impact Statement (DEIS) for the proposed Golden Pass LNG Export Project (referenced above). I would like to submit these comments in support of the proposed \$108 project.

CO5-1

The DEIS represents a critical milestone in the FERC permitting process. The FERC staff has been thorough in its assessment of the potential impacts of this welcomed expansion to our area. I agree with the report's conclusion that, with the proposed mitigation efforts, the construction of the new facility would not result in significant environmental impacts.

Simply put, this project would create opportunity- thousands of jobs and billions of dollars of investment in local, state and U.S. economies:

- The five-year construction phase could generate the equivalent of 45,000 direct and indirect jobs nationwide, some 9,000 in construction.
- The decades-long operations phase could create some 3,800 direct and indirect permanent jobs for a generation.
- Over the life of the project, this \$10B investment could drive about \$31 billion in U.S. economic gains (gross product) and \$4.6 billion in taxes for the U.S at local, state and national levels.

The positive economic and community benefits of this major infusion of new private capital cannot be overstated.

What's more, Golden Pass' track record of unwavering commitment to safety, environment, and community is a strong indicator of how they will build and operate the new project. During Hurricane Ike, Golden Pass stood firm with Sabine Pass, helping rebuild the community. Golden Pass has made lasting investments in the conservation of local habitat by donating more than 800 acres of forested wetlands in Texas and Louisiana for wildlife protection and ecosystem restoration. And Golden Pass has a

CO5-1 The commentor's support for the Project is noted.

CO5 – Sterling Integrated Solutions, LLC (cont'd)

central culture of safety, with more than 6 million work-hours — more than 5 years - without a lost-time injury.
In closing, I urge the FERC to look favorably on the Golden Pass DEIS and publish the Final EIS as scheduled and issue the final order as soon as possible.
Sincerely,
Romo Bellhotthe
Romeo Pulikatthara President
Sterling Integrated Solutions, LLC

CO6 – American Petroleum Institute

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May 16, 2016

AMERICAN PETROLEUM INSTITUTE

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

RE: The Draft Environmental Impact Statement for the Golden Pass LNG Export Project proposed by Golden Pass Products LLC and Golden Pass Pipeline LLC (Docket Nos. CP14-517-000 and CP14-518-000)

Dear Ms. Bose:

On behalf of the American Petroleum Institute (API), I write in support of the draft Environmental Impact Statement (DEIS) for the Golden Pass LNG Export Project. The economic and environmental benefits of exporting U.S. liquefied natural gas (LNG), including those to be gained by the approval of the Golden Pass LNG Export Project, are considerable, and the DEIS is appropriately tailored to facilitate these benefits at a critical time for the U.S. natural gas industry.

Statement of Interest

API is a national trade association that represents over 650 companies involved in all aspects of the oil and natural gas industry. API's members include owners and operators of LNG import and export facilities in the United States and around the world, as well as owners and operators of LNG vessels, global LNG traders, and manufacturers of essential technology and equipment used all along the LNG value chain. Our members also have extensive experience with the drilling and completion techniques used in shale gas development and in producing America's natural gas resources in a safe and environmentally responsible manner.

Benefits of Increased LNG Exports

The continued safe and environmentally responsible development of domestic natural gas is an important component of America's energy security and economic strength. Since 2007, U.S. natural gas imports have decreased by 41 percent. The U.S. is expected to become a net exporter of natural gas by 2017 and LNG facilities once used for imports are being converted to export facilities.² Natural gas supply is abundant and capable of sustaining substantial increases in domestic consumption as well as exports. The volume of natural gas consumed in 2015 in the U.S. was 27.5 trillion cubic feet.3 The most recent projections show a range of technically recoverable gas using today's technology from 2,200 to 3,900 trillion cubic feet. Importantly, using today's technology, approximately 1,400 Tcf of natural gas is recoverable at a current break-even Henry Hub price of \$4/MMBtu or less in the United States and

1220 L Street, NW • Washington, DC 20005-4070 • www.api.org

EIA, U.S. Natural Gas Imports By Country, accessed August 11, 2015,

^{* 2}ED, O. S. Andrial Sos imports by Country, accessed regions 1, 2015, http://www.eia.gov/chaw/igr/igr.come.impc.sl_al.htm.
* ELA Annual Energy Review 2015, April 2015, ES-4, http://www.eia.gov/forccasts/aco/pdf/0383(2015).pdf.
* Shutural Eac Ossamption by Fed Ilory, "U.S. Energy Information Administration, last modified April 29, 2016, http://www.eia.gov/chaw/ng/ng.cons.sum.dcu.nus.a.htm.

CO6 – American Petroleum Institute (cont'd)

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Canada (in real terms), a 66 percent increase over 2010 estimates.⁴ As technology continues to advance in unconventional drilling, recoverable gas estimates will continue to grow.

Increased LNG exports will have domestic benefits for the United States, including jobs created by the construction and operation of the facilities themselves. For instance, the Golden Pass LNG Export Project has the potential to create 45,000 direct and indirect jobs nationally during the 5-year construction phase, and 3,800 permanent direct and indirect jobs for the 25+ year operating phase of the facility. In all, the \$10 billion investment is projected to generate \$31 billion in economic gains for the country, with much needed opportunity in Southeast Texas.5

In addition to the economic benefits of LNG exports, natural gas also advances environmental goals. The increased use of natural gas in electricity generation accounted for 45% of total global greenhouse gas (GHG) reductions between 2005 and 2014.6 Natural gas is the cleanest burning fossil fuel and exporting U.S. LNG would help reduce GHG emissions. ICF International estimates that GHG emissions from exported LNG would be 43 to 52 percent lower than if coal was being used.7 Further, DOE's own study concluded that U.S. exported LNG has lower life-cycle GHG emissions than power generation from other Asian and European regional fossil fuels. Encouraging the use of natural gas around the world will have an important effect on our climate change goals.

III. Scope of NEPA Review

CO6-1

API also believes the scope of the DEIS is appropriately tailored to mitigate the environmental impacts of construction and operation of the Golden Pass LNG Export Project. Specifically, API believes that the DEIS is fully compliant with FERC's responsibilities under the National Environmental Policy Act (NEPA), and that a final EIS need not consider either the alleged impacts of supposed "induced" upstream natural gas production to meet increased export demand, or the impacts of "downstream" combustion or other use of natural gas once it is shipped, re-gasified, and put to use in any number of ways in any number of export destinations. API has already provided extensive comment and analysis to FERC9 and the U.S. Department of Energy10 (DOE) on the proper scope of NEPA review for LNG export facilities and related DOE export authorizations, respectively, and we encourage the Commission to review these comments when finalizing the EIS. In sum, because FERC is not the legal cause of upstream natural gas production or downstream consumption of gas, it is not required under NEPA to consider alleged or actual impacts of these activities. Moreover, environmental impacts of upstream natural gas production are already extensively regulated by numerous federal and state agencies (and are the subject of hundreds of consensus-based industry standards); and DOE has already reviewed and analyzed downstream impacts of LNG exports, concluding that on a lifecycle basis, increased exports will lower global GHG emissions.11

CO6-1 The commentor's support for the Project is noted.

⁴ IHS, "Shale Gas Reloaded: The Evolving View of North American Natural Gas Resources and Costs." February 2016, http://press.ihs.com/press

⁴ IBS, "Shale-Gas Robaded: The Evolving Yiew of North American Natural Gas Resources and Costs." February 2016, http://press.lhs.com/press-release/porth-american-uncorrection-instant-alg-sis-resource-base-continues-expand-volumes-and-dcs.
5 A Colden Opportunity, "Colden Pass Products, accessed May 9, 2016, http://www.pdagov/jenvironnem/emissions/carbon/.
5 AG, "O.S. Energy-Related Carbon Discoled Emissions, 2014, November 20, 2015, http://www.ndagov/jenvironnem/emissions/carbon/.
EPA, "U.S. Energy-Related Carbon Discoled Emissions, 2014, November 20, 2015, http://www.dagov/jenvironnem/emissions/carbon/.
EPA, "U.S. Green/Related Carbon Dissistion from NIDS Departs, "February 2016, https://www.dagov/jenvironnem/emissions/carbon/.
EPA, "U.S. Green/Related Carbon Dissistion from NIDS Departs, "February 2016, https://www.dagov/jenvironnem/emissions/carbon/.
EPA, "U.S. Green/Related Carbon Dissistion from NIDS Departs," February 2016, https://www.dagov/jenvironnem/emissions/carbon/.
EPA, "U.S. Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy, "Life Cycle Universities from NIDS Department of Energy," Life Cycle Universities from NIDS Department of Energy,

<sup>2014.
&</sup>quot;See, e.g., American Petroleum Institute, "2012 LNG Export Study - Reply Comments of the American Petroleum Institute," February 25, 3013, http://www.paiorg/-/media/filee/pole/spi/eeports/pair-poly-comments-dee-2012-lng-export-study-2013-pdf.

WES. Department of Energy, "tile Cycle Greenhouse Gas perspective on Paperting Liquietic Astural Cias form the United States," May 29, 2014, 9.

CO6 – American Petroleum Institute (cont'd)

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	IV. Conclusion						
CO6-1 (cont.)	In order to take advantage of the numerous opportunities that LNG exports provide our nation, proper facility permitting must occur without delay in order to boost the competitiveness of the U.S. in this growing market. Enabling U.S. facilities to come online sooner will ensure the U.S. a competitive advantage in serving expected global LNG demand. For the above stated reasons, API writes in support of the Golden Pass LNG Export Project. This abundant, affordable supply can support significant demand growth across several sectors of the economy including power generation, manufacturing, and transportation. The U.S. can increase our natural gas exports and continue to take advantage of this abundant, affordable resource domestically. Approving LNG exports from the Golden Pass LNG Export Project and other export facilities will strengthen our economic growth and environmental goals. Thank you for your consideration in this matter. API is available to address any questions or concerns that the Commission may have.						
	Sincerely,						
	Martin J. Dul-						
Marty Durbin Executive Director, Market Development American Petroleum Institute							

CO7 - Industrial Energy Consumers of America

20160516-5221 FERC PDF (Unofficial) 5/16/2016 11:34:40 AM

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Golden Pass Liquefied Natural Gas (LNG) Export Project

Docket No. CP14-517

I. Summary of FERC Notice of Proposed Rulemaking

The staff of the Federal Energy Regulatory Commission (FERC or Commission) has prepared a draft environmental impact statement (EIS) for the Golden Pass Liquefied Natural Gas (LNG) Export Project, proposed by Golden Pass Products, LLC and Golden Pass Pipeline, LLC (collectively referred to as Golden Pass) in the above-referenced docket. Golden Pass requests authorization to expand and modify the existing Golden Pass LNG Import Terminal to allow the export of LNG, which would require construction and operation of various liquefaction, LNG distribution, and appurtenant facilities. The Project would also include construction of approximately 2.6 miles of 24-inch pipeline, three new compressor stations, and interconnections for bi-directional transport of natural gas to and from the Golden Pass LNG Export terminal.

II. Industrial Energy Consumers of America

The Industrial Energy Consumers of America is a nonpartisan association of leading energy-intensive trade-exposed (EITE) manufacturing companies with \$1.0 trillion in annual sales, over 2,900 facilities nationwide, and with more than 1.4 million employees worldwide. IECA membership represents a diverse set of industries including: chemical, plastics, steel, iron ore, aluminum, paper, food processing, fertilizer, insulation, glass, industrial gases, pharmaceutical, building products, automotive, brewing, independent oil refining, and cement.

CO7 – Industrial Energy Consumers of America (cont'd)

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Industrial Energy Consumers of America

EITE industries use 75 percent of the natural gas and 73 percent of electricity consumed by the manufacturing sector, and would be negatively impacted if natural gas prices increase as a result of exporting LNG. EITE industries account for over 40 percent of all manufacturing jobs.

III. Comments on the Golden Pass Liquefied Natural Gas (LNG) Export Project

 a. Changes to expand and modify the original application and require a new public interest determination.

CO7-1

The FERC and DOE should not approve the expansion/changes to this application request without conducting a new public interest determination which considers the applications' changes in conjunction with the cumulative economic impact of applications and expanded applications that have already been approved nationwide. The Natural Gas Act (NGA) requires that all applications and changes to applications and their volumes of LNG for export to non-free trade countries must be examined to show that such LNG export applications are not in the public interest.

All of the DOE LNG export studies show insignificant net economic gains, higher prices for natural gas, and negative impacts to wages and investment to several manufacturing sectors. All of the gains are concentrated in favor of those entities that own, produce, and export natural gas, and everyone else in the U.S. economy are negatively impacted.

The economic gains are so small that they are within error of the model's capability for a long-term forecast. Economists make clear that any macroeconomic modeling of the U.S. economy for a period of 25 years or more will have outcomes that perform poorly in the long-run and are not encouraged for important decision making. Economists warn that there are even greater errors on studies that evaluate global economic matters as in

CO7-1

As described in section 1.1 of the EIS, the applicants developed the projects in response to customers' demands and then filed applications with the FERC for authorization to construct and operate the proposed facilities. The EIS is limited to assessing the potential environmental impacts of the proposed projects. Although the EIS does consider whether alternative actions might meet the customers' demands, the EIS does not consider or reach a conclusion on whether there is a need for the proposed projects. Section 1502.13 of the Council on Environmental Quality (CEQ) regulations implementing the NEPA requires that an EIS "briefly specify the underlying purpose and need to which the agency is responding in proposing the alternatives including the proposed action." In other words, the EIS states the purpose of and need for a proposed project in order to define the range of alternative actions that the agency can legitimately consider. The determination of whether there is a "need" for the proposed facilities for the purpose of issuing an authorization under Section 7 of the Natural Gas Act (NGA) will be made in the subsequent Commission Order granting or denying the applicants' request for Certificate authorization and is based on a balancing of the benefits of the projects against any adverse impacts.

The Commission makes the determination for whether a project is in the public convenience and necessity. This evaluation and subsequent decision is based on many factors, including the final EIS and associated recommendations, market analysis, ensuring just and reasonable rates, and engineering analyses. The Commission considers the regional benefits of each project against any adverse impacts. This determination has not been made at this time.

CO7 – Industrial Energy Consumers of America (cont'd)

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Industrial Energy Consumers of America

CO7-1 (cont.) the case of LNG and the most recent DOE LNG export study entitled, "The Macroeconomic Impact of Increasing U.S. LNG Exports." Despite this, the DOE has used such studies to justify more and more LNG exports.

The domestic and international market for natural gas and LNG has changed so dramatically over the last 18 months that the DOE LNG export studies and their scenarios fail to adequately reflect these structural market changes. Importantly, the DOE studies have failed to account for the impact of the falling price of crude oil in their scenarios and the direct impact that it has had and will continue to have on short- and long-term supply and the price of natural gas domestically.

For example, crude oil and NGL prices are a major determinant of U.S. natural gas supply, yet there is no evaluation of this relationship in the DOE LNG export studies. The fall of crude oil prices globally, and how major OPEC countries responded by maintaining production which will keep prices lower, is reducing oil and gas investment, thereby impacting the U.S. investment in oil and gas production. The studies do not consider crude oil at or below breakeven costs.

Both short- and long-term investment in production of oil and gas in the U.S. has been greatly impacted going forward to a degree with which has not been considered in any DOE LNG export study scenario. The historic fundamentals of investment that had relied on cash flow to incent drilling are gone. Lenders require higher prices to justify lending to the industry. Due to lower prices, the value of companies proven reserves have fallen which reduces what lenders will allow companies to borrow. DOE studies have not considered these significant and structural changes to oil and gas investments and the impacts to the supply and price of natural gas for the LNG public interest determination.

¹ The Macroeconomic Impact of Increasing U.S. LNG Exports" http://energy.gov/sites/prod/files/2015/12/f27/20151113 macro_impact_of_lng_exports_0.pdf.

CO7 – Industrial Energy Consumers of America (cont'd)

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Industrial Energy Consumers of America

CO7-1 (cont.) Lastly, existing studies have failed to include the impact of the EPA's Clean Power Plan and the extended production tax credits for renewable energy.

b. Defining the "public interest."

A U.S. Government Accountability Office (GAO) report² states that neither

Congress, nor the DOE, has defined the "public interest." DOE is using guidelines
developed in 1984 for LNG imports to inform LNG export public interest decisions.

The GAO report entitled, "Federal Approval Process for Liquefied Natural Gas

Exports," dated September 2014 includes the following statement on page 11.

In passing the NGA, Congress did not define "public interest;" however, in 1984, DOE developed policy guidelines establishing criteria that the agency uses to evaluate applications for natural gas imports. The guidelines stipulate that, among other things, the market - not the government - should determine the price and other contract terms of imported natural gas. In 1999, DOE began applying these guidelines to natural gas exports."

Criteria used 32 years ago for decision making on LNG *imports* should not be used to inform decision making on LNG *exports*. In 1984, LNG imports were needed and they reduced risks of all kinds to domestic consumers and manufacturers. LNG exports will do the reverse. There is all pain and no gain for consumers.

LNG exports, according to the DOE report, "The Macroeconomic Impact of Increasing US LNG Exports," will reduce the price that Asian countries pay and increase U.S. prices and eventually, our prices will reach parity with Asia. The U.S. will have lost its competitive advantage. Importantly, manufacturers will have lost their competitive advantage, with very serious long-term implications for a viable manufacturing sector, jobs, investment, especially for EITE industries.

² "Federal Approval Process for Liquefied Natural Gas Exports," U.S. Government Accountability Office (GAO), September 2014.

CO7 – Industrial Energy Consumers of America (cont'd)

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Page 5

Industrial Energy Consumers of America

CO7-1 (cont.) IECA is not against exports. We are against excessive exports that can occur because the DOE has not developed appropriate consumer-focused "public interest" determination guidelines that will inform appropriate decision making on LNG export applications and changes to applications.

The DOE needs to conduct a rulemaking to establish public interest guidelines for LNG exports. DOE and FERC should not give approval or conditional approval to any LNG export application, or authorize the expansion or changes to an LNG export application/terminal that has already been approved or conditionally approved without having established these guidelines and evaluated each application or changes to an application using the guidelines.

 DOE-sponsored study "The Macroeconomic Impact of Increasing U.S. LNG Exports" should not be used.

The DOE study "The Macroeconomic Impact of Increasing U.S. LNG Exports" evaluates the economic impact of quantities of LNG exports of 12-20 Bcf/d. The study should not be used in association with the approval of the application request for an increase in export volume of Golden Pass or any other application.

IECA disagrees with the following major conclusions from the study.

- An increase in LNG exports from the United States will generate small declines in output at the margin for some energy-intensive, trade-exposed industries.
- Negative impacts in energy-intensive sectors are offset by positive impacts elsewhere.

Both of the above study conclusions fail to consider the "relative competitive cost impact" to EITE industries of LNG exports. One study bullet point reads: "In every case, greater LNG exports raise domestic prices and lower prices internationally. The majority

CO7 – Industrial Energy Consumers of America (cont'd)

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Page 6

Industrial Energy Consumers of America

CO7-1 (cont.) of the price movement (in absolute terms) occurs in Asia." Page 17 of the study says that LNG exports increasing from 12 Bcf/d to 20 Bcf/d during 2026 and 2040, reduces prices in the Asian-Pacific market by 73 cents per million British thermal units, while increasing U.S. prices by 15 cents per million British thermal units – a combined net negative relative impact to competitiveness of 88 cents, or a 40% equivalent increase, as compared to current prices. A 40 percent impact to relative competitiveness is a very significant relative competitive cost impact and is not addressed in the study cost impacts.

Page 76 of the study states, "The largest increase in [LNG] exports occurs in the HRR cases, and it is in these cases where we see the largest increase in Henry Hub (topping out at \$0.86 in the late 2030's) and the largest decrease in JKM (approaching \$5.50 by 2040)." This means that our global competitors would see a decrease in prices of \$5.50, while U.S. prices would rise \$0.86, for a total negative competitive impact of \$6.36. This would represent a substantial negative impact to U.S. EITE competitiveness.

Sincerely,

Paul N. Cicio, President Industrial Energy Consumers of America 1776 K Street, NW, Suite 720 Washington, DC 20006 202-223-1661 pcicio@ieca-us.org

May 16, 2016

CO8 - Sierra Club

20160516-5350 FERC PDF (Unofficial) 5/16/2016 4:24:23 PM



May 16, 2016

By eFiling

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: Comments on the Draft Environmental Impact Statement for the Golden Pass LNG Export Project, FERC Docket Nos. CP14-517-000 and CP14-518-000, issued March 25, 2016.

Dear Secretary Bose,

Sierra Club submits these comments concerning the Draft Environmental Impact Statement ("DEIS") prepared by the Federal Energy Regulatory Commission ("Commission" or "FERC") for the Golden Pass LNG Export Project, which would add liquefaction and export capabilities to an existing, but unused, natural gas import terminal. Sierra Clubs requests a written response to comments and written notification when any action is taken on this DEIS, and Sierra Club reserves the right to rely on all public comments submitted. These comments supplement and incorporate by reference the Sierra Club's Motion to Intervene, Protest, and Comment (August 11, 2014) in these dockets.

CO8-1

1

CO8-1 Our replies to the commentor's specific concerns are detailed below. In addition, the Sierra Club has been provided the final EIS.

 $^{^{1}}$ FERC rules provide that because that motion to intervene was timely and unopposed, it was granted automatically. Nonetheless, in an abundance of caution, Sierra Club renews and reiterates its motion to intervene here.

CO8 - Sierra Club (cont'd)

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Background

Golden Pass proposes to develop an LNG export facility capable of producing approximately 15.6 million tons per annum ("mtpa"), or approximately 2.7 billion cubic feet per day ("bcf/d"), of LNG for export. DEIS 1·1. According to Golden Pass, the new export terminal will consist of three liquefaction trains, feed gas pretreatment facilities, a truck loading/unloading facility and a 200·250 megawatt power plant as well as modifications to the existing import terminal, including the installation of larger pumps, expansion of the existing levee, and the construction of new administration, control, maintenance and storage buildings. The expanded pipeline would consist of approximately three miles of new 24-inch diameter pipeline, three new compressor stations to be located in Texas and Louisiana, and

2

CO8 - Sierra Club (cont'd)

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modifications and upgrades to existing interconnections to allow for bi-directional flow and increased capacity.

II. FERC Must Consider the Indirect and Cumulative Effects of Enabling Liquefied Natural Gas Exports from Golden Pass Facility

As explained in the DEIS, "Golden Pass states that the purpose of the Project would be to liquefy and export domestic natural gas to global markets." DEIS 1-2. Those exports, which cannot occur without FERC approved facilities, will have predictable effects on natural gas production, domestic consumption of natural gas and other sources of energy, and on the use of natural gas in the countries that receive exports. Golden Pass identifies the "incremental natural gas production, associated with the implementation of the proposed Golden Pass Products Terminal over the life span of the facility" as a major source of economic benefit provided by the project. Application at 23-24; accord id. at 4-5.

FERC's approval of export infrastructure not only enables these effects: FERC's exercise of siting authority influences their nature and extent. For example, as FERC has acknowledged, an export facility in the Pacific Northwest would be likely to draw gas supplies from fundamentally different producing regions than export facilities along the Gulf or East Coasts. Even for the latter facilities, siting projects in different locations is likely to lead to differences in the location of any induced gas production.

Sierra Club's Motion to Intervene and Protest explained that this incremental increase in gas production would have adverse environmental effects that must be considered in the NEPA and Natural Gas Act analyses. Sierra Club Protest at 9 (Aug. 11, 2014). Sierra Club also identified other distinct but related indirect effects: impacts resulting from a domestic increase in coal use, in response to export-driven increases in domestic natural gas prices, and impacts resulting from use of exported LNG in end-use markets. *Id.*

CO8-2

The DEIS entirely fails to analyze these effects, or to provide reasons for this failure. The DEIS recognizes that FERC received comments calling for investigation into "the extent to which the Project would stimulate natural gas drilling activity and the potential subsequent environmental effects associated with such an expansion." DEIS at 1·7 to 1·8. But the DEIS's sole discussion of this issue is the statement that "Because this issue is outside the scope of the environmental analysis, it is not further addressed in the EIS." DEIS at 1·8. The DEIS does not

8

CO8-2 The final EIS has been updated. As described in sections 1.3.2 and 4.13.2.11, the environmental analysis of induced natural gas production, LNG transport, and end use are not only beyond the scope of NEPA, but too speculative to permit meaningful consideration as part of our analysis.

Company and Organization Comments

CO8 - Sierra Club (cont'd)

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CO8-2 (cont.) respond to Sierra Club's comments regarding effects on domestic coal use or endusers of exported LNG.

This falls far short of the hard look at "indirect effects," including "growth inducing effects," that NEPA requires. 40 C.F.R. § 1508.8(b). Accordingly, FERC must prepare an EIS that considers these indirect effects, and provide the public with an opportunity to comment on this consideration.

A. Effects of Increased Gas Production

DOE, EIA, the project applicants, and numerous private modelers all agree that exports will increase domestic gas production. For reasons stated in Sierra Club's comments on DOE's Addendum to Environmental Review, re-filed in this docket at Accession No. 20160512-5235,² export driven increases in gas production are foreseeable, and will have foreseeable environmental effects.

CO8-3

The Department of Energy summarized some of the general impacts of gas production, and of hydraulic fracturing in particular, in its "Addendum to Environmental Review Documents Concerning Exports of Natural Gas from the United States," which it issued in conjunction with three reports from the National Energy Technology Laboratory. 79 Fed. Reg. 48,132 (Aug. 15, 2014) ("DOE Addendum"). For reasons explained in Sierra Club's comments on the DOE and NETL materials, which Sierra Club has re-filed in this docket, the Addendum is not a substitute for NEPA review of the indirect effects of exports. Nonetheless, the Addendum and supporting materials confirm exports will lead to a "combination of increased domestic production of natural gas (principally from unconventional sources), decreased domestic consumption of natural gas, and an adjustment to the U.S. net trade balance in natural gas with Canada and Mexico." DOE Addendum at 1. The Addendum and supporting materials also confirm that available tools can be used to reasonably predict the impacts of this production. FERC must therefore avail itself of these tools here.

B. Effects of Increased Coal Use

CO8-4

As we explained above in our comment on DOE's materials regarding the environmental effects of LNG exports, a foreseeable effect of exports will be

4

CO8-3 See response to comment CO8-2. As explicitly stated in the Department of Energy (DOE) report cited by the commentor as well as in sections 1.3.2 and 4.13.2.11 of our EIS, the evaluation of induced natural gas production is beyond the scope of our NEPA review.

CO8-4

The cited EIA report predicted over a dozen LNG export scenarios associated with the use of future energy sources. The report states that none of those increased LNG export scenarios is more plausible than the current reference cases of the mix of the expected use of natural gas, renewables, nuclear, coal, and petroleum liquids. With numerous caveats and assumptions on plausibility, the EIA report predicts that increased LNG exports may increase or decrease greenhouse gas (GHG) emissions depending on various (and unforeseen) socioeconomic and geopolitical forces across the globe. Thus, the wide range of the predicted results of the report were not considered relevant to our NEPA review of the Golden Pass LNG Export Project.

² http://elibrary.ferc.gov/IDMWS/common/OpenNat.asp?fileID=14247108, pages 5.8.

CO8 - Sierra Club (cont'd)

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CO8-4 (cont.) increases in greenhouse gas emissions from the U.S. electricity generation sector. This effect is likely to occur notwithstanding recent federal regulations regarding air pollution from coal-fired power plants, as demonstrated by the EIA's analysis of the effect of exports in the "accelerated coal and nuclear retirement" scenario in EIA's October 2014 report on LNG export. 4

The DEIS is completely silent as to this effect. As explained in Sierra Club's comments on the DOE materials, the export project has the potential to increase coal use in the electric sector, increasing emissions of greenhouse gases, ozone-forming pollutants, and other air pollutants. These effects are reasonably foreseeable and must be considered here.

C. Effects "Downstream" of the Project, in End-Use Markets

The projects would also cause foreseeable indirect effects "downstream" of the facility, in the countries receiving the exported gas. Sierra Club identified these effects, and the need for further analysis thereof, in comments on the Department of Energy's 2014 Addendum on environmental impacts, which we incorporate here by reference. In summary, gas exported from the Golden Pass facility will be transported overseas via tanker, re-gassified, distributed to end users, and then burned, and FERC must consider the impacts of each of these processes.

Since those comments were filed, additional information has further highlighted both the magnitude and import of those impacts.

CO8-6

CO8-5

One, the body of evidence indicating that LNG exports will compete with renewables, rather than other fossil fuels, is ever-growing. See, e.g., Jurgen Weiss, et al., LNG and Renewable Power: Risk and Opportunity in a Changing World (Jan 15, 2016).

5

CO8-5 See response to comment CO8-2.

CO8-6

The cited report provides a variety of speculative scenarios on what energy markets may or may not do across the globe in the coming decades. Some scenarios indicate that LNG exports may result in lower costs and more economic growth domestically and internationally. Other scenarios have different outcomes depending on the assumptions and caveats. None of them are germane to the Golden Pass LNG Export Terminal or our NEPA review of it.

 $^{^3}$ Sierra Club's Comment on Climate Impacts of LNG Exports, re-filed in this docket at accession number $20160512 \cdot 5235,$

http://elibrary.ferc.gov/IDMWS/common/OpenNat.asp?fileID=14247157, at 4.5.

⁴ https://www.eia.gov/analysis/requests/fe/pdf/lng.pdf

⁵ http://www.brattle.com/system/publications/pdfs/000/005/249/original/ LNG and Renewable Power · Risk and Opportunity in a Changing World.pdf, attached as Exhibit 1.

CO8 - Sierra Club (cont'd)

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Two, the need for ever-more ambitious emission reductions in the medium term is becoming ever clearer. U.S. and international emission reduction targets for 2030 and 2050 are drastically lower than targets for 2020. Because LNG infrastructure is likely to operate for multiple decades—because of the cost of the infrastructure, the duration of the relevant government approvals, and the length of the contracts—these longer-term emission targets must be considered as well. Even if LNG exports were to exclusively replace coal or other fossil fuels in downstream markets, and even if this substitution provided an emission benefit that contributed toward attainment of end-use countries' 2020 or 2025 targets, 6 FERC must consider whether LNG exports would nonetheless decrease the likelihood of attaining longer-term targets. Rather than locking in future reliance on fossil fuels by the encouraging the development of natural gas infrastructure, the U.S. and other countries must work to rapidly transition away from polluting fossil fuel infrastructure entirely.

CO8-8

CO8-7

Three, there is growing recognition that, in order to prevent catastrophic climate change, most of the world's recoverable fossil fuels will need to remain in the ground. The United States has recently reiterated the need to serve as a climate leader, setting a strong example that will encourage other countries to take the action necessary to limit climate change.

D. Cumulative Indirect Impacts

CO8-9

NEPA requires discussion of the "cumulative" effects "result[ing] from the incremental impact of [agency] action when added to other past, present, and reasonably foreseeable future actions." 40 C.F.R. § 1508.7. The indirect effects of the project on gas production, domestic energy use, and energy use in downstream markets will all be felt cumulatively with the indirect effects of other export projects, and FERC must consider these effects.

6

CO8-7	As clearly stated in the reports cited by the commentor (e.g., DOE, 2014; EIA, 2014; Brattle, 2016), LNG exports across the United States may increase or decrease greenhouse gas emissions based on a myriad of future actions and factors outside the control of the FERC or even the United States. More importantly, there is no meaningful evidence that operations of the Golden Pass LNG Export Project would have a reasonably
	foreseeable effect on climate change, and whether that effect would be positive or negative.

CO8-8 See response to comment CO8-7.

CO8-9 See response to comment CO8-2. As explicitly stated in the DOE report cited by the commentor as well as in sections 1.3.2 and 4.13.2.11 of our EIS, the evaluation of induced natural gas production is beyond the scope of our NEPA review.

⁶ Sierra Club reiterates that both of these effects are likely to be limited, if they exist at all. Sierra Club's Comment on Climate Impacts of LNG Exports, 20160512-5235, http://elibrary.ferc.gov/IDMWS/common/OpenNat.asp?fileID=14247157, pages 2-4.

⁷ See, e.g., Declaration of Todd Stern, U.S. State Department Special Envoy for Climate Change, State of West Virginia, et al., v. EPA, et al., D.C. Cir. Case No. 15-1363 (Dec. 03, 2015), attached as Exhibit 2.

CO8 - Sierra Club (cont'd)

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CO8-10

At present, FERC has granted eight export facility applications, 8 seven other applications are "pending," 9 twelve more applications are involved in FERC's "prefiling" process, 10 and FERC is aware of one project pending before the U.S. Coast Guard and three Canadian projects. 11 These projects must be considered in the cumulative effects analysis.

As Sierra Club observed, the most effective way to undertake the legally required cumulative effects analysis would be to conduct a programmatic environmental impact statement. This suggestion is consistent with the Council on Environmental Quality's suggestion that a programmatic EIS is appropriate when an agency is faced with "several similar actions or projects in a region or nationwide." ¹² If FERC decides not to prepare a programmatic EIS, however, this does not excuse FERC's obligation to consider the cumulative impact of the slew of export terminal projects. If FERC does not consider these impacts programmatically, FERC must evaluate their cumulative effect in each individual export docket.

III. Direct Air Emissions

The DEIS identifies the tonnage of various air pollutants that will be directly emitted by operation of the project (or closely related activities, such as nearby associated vessel traffic), although the DEIS fails to provide the combined totals for project activities. The major stationary source emissions are:

7

CO8-10

Section 4.13 discusses each of the other proposed LNG export facilities considered as part of our cumulative analysis. The final EIS has been updated. As described in section 1.3.2 of the EIS, the FERC staff review applications for interstate natural gas pipeline projects in accordance with an applicant's stated objective(s) in order to disclose the environmental impacts of a proposal to inform the decision makers and, in accordance with NEPA, evaluate reasonable alternatives to a project. However, the FERC as a matter of policy and in accordance with the Natural Gas Act and other governing regulations, does not direct the development of the gas industry's infrastructure regionally or on a project-by-project basis.

Unless proposed in tandem and clearly dependent upon each other, such as the proposed Terminal Expansion and Pipeline Expansion Projects, proposed projects must have demonstrably sufficient feasibility, purpose, and need to stand alone. Proposed projects may be based on supporting and existing infrastructure, but can't be based on theoretical projects whose certification status is uncertain. Preparation of a regional or programmatic EIS is not warranted for these reasons.

 $^{8\} http://ferc.gov/industries/gas/indus-act/lng/lng-approved.pdf (Accessed April 26, 2016), and attached as Exhibit 3.$

 $^{^9}$ http://ferc.gov/industries/gas/indus-act/lng/lng-proposed-export.pdf (Accessed April 26, 2016) and attached as Exhibit 4.

¹⁰ Id.

¹¹ Id.

¹² Council on Environmental Quality, Effective Use of Programmatic NEPA Reviews, 14 (Dec. 18, 2014) (emphasis added), available at https://www.whitehouse.gov/sites/default/files/docs/effective_use_of_programmatic_nepa_reviews_final_dec2014_searchable.pdf.

CO8 - Sierra Club (cont'd)

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Course	Emissions, tons per year		
Source	NOx	VOC	CO2e
Terminal and MP1 Compressor*	670.9	258.4	4,940,067
MP33 Compressor**	44.2	6	86,651
MP66 Compressor**	201.4	8.9	393,985
Total	916.5	273.3	5,420,703

^{*} DEIS Table 4.11.1.5, 4.125 to 4.126.

CO8-11

The DEIS fails to take the required hard look at the consequences of the emissions. With regard to greenhouse gases, the DEIS understates the global warming potential of methane, and thus the amount, in carbon dioxide equivalent, of greenhouse gases emitted. The DEIS also fails to consider an alternative that would likely reduce these emissions by approximately 20%: carbon capture and sequestration of CO2 removed from pipeline feed gas during the pretreatment process. The DEIS also fails to address the severity or significance of GHG emissions.

CO8-12

With respect to ozone, the DEIS improperly relies on a prior analysis prepared for the Sabine Pass LNG Export project, despite the fact that the two projects have significantly different emissions and that the Golden Pass emissions will occur in a context much different than the context considered five years ago in the Sabine Pass analysis. These deficiencies are not cured by the photochemical modeling submitted by Golden Pass during the comment period, as we explain below.

A. Greenhouse Gases

1. Global Warming Potentials

CO8-13

The DEIS uses the global warming potentials identified by the IPCC's Fourth Assessment Report, released in 2007. DEIS at 4·119. These values were superseded more than two years ago, in September 2013, when the IPCC released its Fifth Assessment Report. 13 For example, this report estimates, on the basis of more recent and thorough science, that methane from fossil sources has 36 times the

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CO8-11

We disagree. The EIS appropriately identifies the air quality impacts associated with construction and operation of the proposed LNG liquefaction facilities and the pipeline. Further, the EIS identifies all of the emissions associated with the proposed facilities, as well as the marine emissions required to transport equipment to the terminal site during construction. The EIS also considers the emissions relative to all applicable federal and state regulations designed to protect human health and the environment. The Golden Pass Project would adhere to those regulations. See our responses below to the more detailed comments on these emission issues.

CO8-12

In response to our recommendation in the draft EIS, Golden Pass filed a complete photochemical modeling study of the Terminal Expansion. Section 4.11.1.5 of the EIS has been updated to represent the results specific to ozone emissions of the Terminal Expansion.

CO8-13

The EIS represents the most recent EPA global warming potentials (GWPs), expressed in terms of carbon dioxide equivalents (CO_{2-ea}), as revised in 2013 to reflect the GWP values from the Intergovernmental Panel for Climate Change (IPCC) Fourth Assessment Report released in 2007. Although IPCC released a Fifth Assessment Report in 2014, the values presented in that report have not yet been adopted by the EPA. EPA supported the 100-year time period over the 20-year period in its summary of comments and responses in the final rulemaking, 2013 Revision to the Greenhouse Gas Reporting Rule and Final Confidentiality Determinations for New or Substantially Revised Data Elements, establishing the methane GWP at 25 (78 Fed. Reg. 71,904). Similarly in this rulemaking, EPA supported the adoption of the published IPCC's Fourth Assessment Report GWP values over the Fifth Assessment Report values. As the commentor notes, EPA acknowledges that the more recent estimates are more accurate and better reflect scientific consensus. EPA has identified that it may consider adoption of the Fifth Assessment Report GWPs in the future, at which time we will ensure use of any revised EPA GWP values in future NEPA evaluations.

^{**} DEIS Table 4.11.1.7, 4.132

 $^{^{13}}$ IPCC, Climate Change 2013; The Physical Science Basis: Chapter 8, page 714, Table 8.7, attached as Exhibit 5.

CO8 - Sierra Club (cont'd)

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CO8-13 (cont.) global warming potential of carbon dioxide over a 100 year time frame and at least 87 times the global warming potential of carbon dioxide over a 20-year time frame. So the EPA and the Department of Energy have recognized that the newer estimates represent the best available science regarding the impact of non-CO2 GHGs. Specifically, although EPA uses the older IPCC values in compiling EPA's GHG Inventory, EPA has explained that EPA believes more recent estimates to be more accurate and better reflect scientific consensus; EPA uses the old values for the narrow purpose of compiling the inventory because the convention establishing the inventory has specified old values and has not been updated. The Department of Energy has similarly recognized that the Fifth Assessment Report values using climate feedbacks (e.g., 36 and 87 for methane) reflect the current scientific consensus.

2. Capture and Sequestration of CO2 Removed from Pipeline Gas at Pretreatment

Pipeline quality natural gas delivered to the project would not be pure methane: according to the DEIS, it will contain up to 2% carbon dioxide, together with other impurities. DEIS 4·171. The Project therefore involves "an Amine System for carbon dioxide and hydrogen sulfide removal." DEIS ES·2, 1·1. This amine system produces a waste stream that is up to 96% pure carbon dioxide. DEIS 4·171. This pretreatment waste stream is then sent to a thermal oxidizer, DEIS 4·172, which will emit more than 1.1 million tons of carbon dioxide equivalent per year, DEIS 4·125.

CO8-14

FERC must consider a design alternative that would capture and sequester this CO2 removed from pipeline quality feed gas, rather than venting it to the atmosphere. Carbon Capture and Sequestration ("CCS") is a process that uses a chemical or physical solvent to remove CO_2 , the dominant GHG, from a CO_2 ·

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CO8-14 Section 4.11.1.5 has been updated to include a discussion on carbon capture and sequestration.

¹⁴ Id.

 $^{^{15}\,\}underline{\text{https://www3.epa.gov/climatechange/ghgemissions/gwps.html}},$ attached as Exhibit 6.

¹⁶ Department of Energy, Opinion and Order 3357-C, DOE/FE Dkt. 11·161·LNG, at 30 (Dec. 4, 2015) ("We agree with Sierra Club that using 20° and 100° year methane GWPs of 87 and 36 is most appropriate for use today and that climate carbon feedbacks should be captured in the GWP values for methane."), available at www.fossil.energy.gov/programs/gasregulation/authorizations/2011 applications/ord 3357e.pdf.

CO8 - Sierra Club (cont'd)

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CO8-14 (cont.) containing stream (such as natural gas, flue gas, synthesis gas) using absorption, with subsequent stripping of the absorbed CO_2 to produce a concentrated CO_2 stream. Depending upon the acid gas removal technology applied, the CO_2 may need to be dried, then compressed to a dense phase state for pipeline transport to an appropriate storage location, most likely underground in a geological storage reservoir such as a deep saline aquifer or an oil reservoir or coal seam. CCS is far and away the most effective add-on technology available to reduce, by as much as 90 percent, GHG emissions from industrial facilities like the Golden Pass project.

Although CCS can be applied to any CO2-containing emission stream (including the various proposed sources of combustion emissions at the Golden Pass site), it is especially well suited to pretreatment emissions here, because Golden Pass's facility is already designed to remove CO2 from pipeline gas, producing a high-purity CO2 stream that is amenable to capture and sequestration. The DEIS states that the resulting waste stream from the Amine Units should be expected to result in a highly concentrated CO2 stream, as much as 96% CO2, which is ideal for CCS. This stream can be sequestered in a geologic formation with no further treatment or used for enhanced oil recovery or other end uses. EPA has already determined that CCS is technically feasible for a similar gas pretreatment facility. 17 Another proposed LNG exporter has indicated CO2 from gas pretreatment could be captured and sequestered for less than \$15 per ton, and EPA agreed. Sierra Club's analysis concluded that with better facility design, such as a selective acid gas removal technology that uses a physical solvent, instead of the amine units proposed for Freeport and here, could capture this CO₂ so cheaply that it could make a net profit off of its sale. 18 Examples of these technologies are Selexol 19 or Rectisol 20 units, which could selectively remove both CO2 and sulfur compounds to levels suitable for enhanced oil recovery or other sequestration. The resulting CO2 stream would have

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¹⁷ EPA Region 6, Statement of Basis: Draft Greenhouse Gas Prevention of Significant Deterioration Preconstruction Permit for the Freeport LNG Development, L.P., Freeport LNG Liquefaction Project, PSD-TX-1302-GHG, at 12, 29-30 (Dec. 2, 2013), attached as Exhibit 7.

 $^{^{18}}$ Sierra Club, Comments on Freeport LNG Lique faction Project –Permit No. PSD-TX·1302·GHG, at 3, 14·17 (Jan. 6, 2014), attached as Exhibit 8.

¹⁹ UOP, UOP Selexol Technology for Acid Gas Removal (2009), available at: http://www.uop.com/?document=uop·selexol-technology-for-acid-gas-removal&download=1 and attached as Exhibit 9.

²⁰ Arthur L. Kohl and Richard B. Nielsen, Gas Purification, 5th Edition, Gulf Publishing Company, Chapter 14: Physical Solvent for Acid Gas Removal, 1997.

CO8 - Sierra Club (cont'd)

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CO8-14 (cont.) a low water content and a lower sulfur content and could go directly to a compression and smaller drying plant and then to a pipeline. CCS is also feasible for capture of turbine combustion emissions.

Turning to sequestration, Golden Pass could deliver captured CO_2 to the Denbury Green Pipeline, which would then transport CO_2 to regions where it could be sequestered. It appears that the terminal and pretreatment facility are within approximately 15 miles of the Denbury Green Pipeline. Alternatively, the MP33 compressor station is within 0.25 miles of a CO_2 pipeline, DEIS at 4·4, presumably this one. Accordingly, it appears likely that CO_2 captured at the pretreatment facility could be delivered to this existing pipeline with minimal new pipeline construction, and with any such construction likely to parallel existing rights of way.

3. Severity and Significance of Greenhouse Gas Emissions

CO8-1

The DEIS states that the Golden Pass export project will emit more than 5.4 million tons per year of CO₂e. 4·125, 4·126, 4·132. ENEPA requires that, in addition to acknowledging these emissions, FERC "evaluate the severity" of these emissions, Robertson v. Methow Valley Citizens Council, 490 U.S. 332, 352 (1989), and inform decisionmakers and the public of these emissions "significance." 40 C.F.R. § 1502.16(a)·(b). To serve NEPA's "twin aims" of informing agency decisionmakers and the public, this evaluation must be in in terms that will meaningfully inform these intended audiences of the magnitude and consequences of these effects.

Natural Res. Def. Council v. Nuclear Regulatory Comm n, 685 F.2d 459, 487 n.149 (D.C. Cir. 1982) rev'd on other grounds sub nom. Balt. Gas & Elec. Co. v. Natural Res. Def. Council, 462 U.S. 87, 106-107 (1983); Columbia Basin Land Prot. Ass'n v. Schlesinger, 643 F.2d 585, 594 (9th Cir. 1981).

CO8-16

Here, the DEIS admits that these "emissions would increase the atmospheric concentration of GHGs, in combination with past and future emissions from all other sources, and contribute incrementally to climate change" DEIS $4\cdot256$.

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CO8-15

As stated in section 4.13.2.11, there is currently no standard methodology to determine how the Project's incremental contribution to global GHGs would translate into physical effects on the environment global. Therefore, we reiterate that we cannot determine whether the Project's contribution to cumulative impacts on climate change would be significant. The EIS does identify the GHGs that would be emitted by the Project during construction and operation, as well as, the control technology that Golden Pass has incorporated into the Terminal design and permitted by the Texas Commission on Environmental Quality (TCEQ).

CO8-16

We disagree. The CEO's February 18, 2010 Draft NEPA Guidance on Consideration of the Effects of Climate Change and Greenhouse Gas Emissions specifies that the threshold identified in the document is merely a "useful indicator," not a threshold of significance for agencies, to use in determining when to evaluate and disclose GHG emissions in NEPA documents. Further CEQ's guidance states that "agencies should recognize the scientific limits of their ability to accurately predict climate change effects, especially of a short-term nature, and not devote effort to analyzing wholly speculative effects." On December 18, 2014, the CEQ released a revised draft GHG emission guidance memo. As recommended in this new guidance, to the extent practicable, FERC staff incorporated additional guidance provided by this memo into the GHG analysis completed for the Project. Section 4.11 appropriately discloses the emissions of construction and operation of the Project. Section 4.13.2.11 identifies the impacts climate change has in the Southeast and Great Plains regions, the potential for climate change to impact the Project facilities, and the mitigation measures Golden Pass would implement to reduce GHG emission from the proposed facilities.

²¹ http://www.denbury.com/operations/operations-overview/default.aspx, attached as Exhibit 10.

 $^{^{22}}$ The DEIS states that "The GHG emissions associated with construction and operation of the Project are discussed in sections 4.11.1.4 and 0 [sic], respectively." DEIS 4.256. The DEIS contains no section "0." This and other cross references to section 0 in the DEIS must be remedied in the final EIS.

CO8 - Sierra Club (cont'd)

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CO8-16 (cont.) However, the DEIS is deficient because it provides no discussion whatsoever of the severity, significance, or importance of this incremental contribution. Id. The DEIS states that "Currently, there is no standard methodology to determine how the Project's incremental contribution to GHGs would translate into physical effects on the global environment. ... Because we cannot determine the Project's incremental physical impacts on the environment caused by climate change, we cannot determine whether the Project's contribution to cumulative impacts on climate change would be significant." Id

Although FERC might prefer to base a discussion of severity on a prediction of the particular physical effects that would result from these Projects' emissions, NEPA regulations provide that once FERC determines that "the means to obtain" such a prediction "are not known, [FERC] shall ... evaluat[e] ... impacts based upon theoretical approaches or research methods generally accepted in the scientific community." 40 C.F.R. § 1502.22(b)(4) (emphasis added). At least two such "approaches" for assessing the impact of greenhouse gas emissions are available: calculating the impact attributable to these particular emissions using federal estimates of social cost of greenhouse gas emissions, and evaluating how these emissions would affect broader efforts to combat climate change by impacting achievement of federal emission reduction targets.

CO8-17

The social cost of carbon serves an important informational purpose, which is otherwise unmet here, by providing estimates of the severity of impacts to "agricultural productivity, human health, property damages from increased flood risk, and the value of ecosystem services." Interagency Working Group on Social Cost of Carbon, Technical Support Document: Technical Update of the Social Cost of Carbon for Regulatory Impact Analysis (Nov. 2013), at 2.23 Merely disclosing the volume of greenhouse gases emitted, on the other hand, does not inform the public of the significance of the "cultural, economic, social, or health" impacts of these emissions. 40 C.F.R. § 1508.8.

The Social Cost of Carbon is explicitly designed to present "a defensible set of input assumptions grounded in the existing scientific and economic literatures."

Interagency Working Group on Social Cost of Carbon, *Technical Support Document:*Social Cost of Carbon for Regulatory Impact Analysis (February 2010) 1.24 The

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CO8-17

The social cost of carbon tool is used to estimate the comprehensive costs associated with a project's GHG emissions. The tool provides monetized values, on a global level, of addressing climate change impacts and is intended for estimating the climate benefits of rulemakings and policy initiatives. While we recognize the availability of this tool, we believe that for the following reasons, it would not be appropriate or informative to use for this project: (1) the EPA states that "no consensus exists on the appropriate [discount] rate to use for analyses spanning multiple generations" and consequently, significant variation in output can result; (2) the tool does not measure the actual incremental impacts of a project on the environment; and (3) there are no established criteria identifying the monetized values that are to be considered significant for NEPA purposes. While the tool may be useful for rulemakings or comparing alternatives using cost-benefit analyses where the same discount rate is consistently applied, it is not appropriate for estimating a specific project's impacts or informing the decision makers on the project.

²³ https://www.whitehouse.gov/sites/default/files/omb/assets/inforeg/technical-update-social-cost-of-carbon-for-regulator-impact-analysis.pdf

 $^{^{24}}$ https://www.whitehouse.gov/sites/default/files/omb/inforeg/for agencies/Social-Cost of Carbon for RIA.pdf

CO8 - Sierra Club (cont'd)

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CO8-17 (cont.) method is "generally accepted" despite the lack of consensus on a *single, most* appropriate rate for discounting future costs. There is a consensus that the *range* of values presented in the tool "reflect reasonable judgments" and "span a plausible range." *Id.* at 23. The authors recommend presenting estimates of cost using this range of rates. *Id.* Following that recommendation is not difficult; indeed, FERC has done so for another project. FERC, Final EIS, Constitution Pipeline and Wright Interconnect Projects, CP13·499 (Oct. 2014), at 4·256 to 4·257 ("For 2015, the first year of project operation, ... the project's social cost of carbon for 2015 would be \$1,638,708 at a discount rate of 5 percent, \$5,325,802 at 3 percent, and \$8,330,100 at 2.5 percent.").

CO8-18

In addition to estimating the social cost of greenhouse gas emissions, FERC should have examined the significance of these emissions by determining how they would impact federal efforts to address climate change by meeting specific emission reduction targets. In 2013, the President announced a strategy for achieving these targets, acknowledging that "climate change represents one of our greatest challenges of our time," which would require "broad-based," coordinated federal action to address. Executive Office of the President, *The President's Climate Action Plan* (June 2013), at 4. In light of the EIS's failure to otherwise inform the public of the impact of these emissions, and NEPA's purpose of fostering "Iglovernment coordination" and "comprehensive" approaches to environmental problems, *Morton*, 458 F.2d at 836, FERC should discuss the impact of this project on broader emission reduction goals.

B. Ozone

 The DEIS's Ozone Analysis, Which Merely Analogized to the Earlier Sabine Pass Project, Is Deficient

CO8-19

The DEIS "analyzed" the impacts of project operation on ozone "through comparison of Project emissions with those of a similar project that performed a recent photochemical modeling study in the [Beaumont Port Arthur] area." DEIS 4·144 – 4·145. However, the DEIS has not shown that the "modeling analysis for the Sabine Pass LNG facility in 2011" is "representative" of the impact of Golden Pass. First, the two projects have significantly different emissions of ozone precursors. The Golden Pass Project will emit more than 273.3 tons per year of volatile organic chemicals, whereas the Sabine Pass Liquefaction project added emissions of only 88

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CO8-18

We disagree. FERC staff appropriately coordinated efforts with other federal agencies in preparation of the EIS to disclose the Project's construction and operational impacts. Further, mitigation and emission reductions are more appropriately handled by the federal and state agencies, in this case the EPA and TCEQ, with the authority to impose such reductions to meet federal and state air quality goals. Also see response to comment CO8-7.

CO8-19 See response to comment CO8-12.

CO8 - Sierra Club (cont'd)

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CO8-19 (cont.) tons per year of VOC. 20 Second, the Sabine Pass analysis, performed for the first proposed LNG export facility in the area, considered baseline conditions than Golden Pass. Third, the Sabine Pass analysis considered whether that project would cause or contribute to violations of the old 75 parts per billion 8-hour ozone NAAQS, and therefore does not focus on the 70 ppb standard EPA finalized in the fall of 2015 26

2. Golden Pass's Late-filed CAMx Analysis, While Important, Does Not Obviate
The Need for FERC NEPA Review

CO8-20

The DEIS further instructed Golden Pass to file "a complete photochemical modeling study of the Terminal Expansion" "[p]rior to the end of the draft EIS comment period." DEIS $4\cdot145$. Golden Pass filed this study on May 4, 2016, twelve days before the close of the comment period. This provides Sierra Club and other members of the public insufficient time to review this material.

In addition, the photochemical study is not a substitute for NEPA review. Although the study purports to show that the project will not cause a violation of the NAAQS for ozone, NEPA requires more than merely an analysis of whether a project will violate other environmental statutory requirements. For ozone in particular, a large body of scientific evidence indicates that ozone levels adversely impact human health even at levels that do not violate the present 70 ppb 8-hour standard. The Clean Air Scientific Advisory Committee ("CASAC") has explained that even "[a]t 70 ppb, there is substantial scientific evidence of adverse effects . . . , including decrease in lung function, increase in respiratory symptoms, and increase in airway inflammation." CASAC explained that the 70 ppb, provides "little margin of safety for the protection of public health, particularly for sensitive subpopulations," and that the scientific evidence supports a standard as low as 60 ppb. Even the 60 ppb level recommended in CASAC's June 2014 letter is not low enough to prevent

28 Id.

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CO8-20 We disagree. Sierra Club points to ranges of ozone standards that have not been adopted by EPA and speculatively predicts a future EPA proposed ozone standard. The EIS appropriately uses the current EPA established ozone standard, which is supported by EPA to be protective of human health and welfare. If EPA updates its standard in the future in a final rulemaking, we will evaluate projects in comparison with those established standards.

²⁵ Sabine Pass Liquefaction Project EA, CP11-72, at 2-56 (Dec. 2011).

²⁶ https://www.epa.gov/ozone·pollution/2015·national·ambient·air·quality-standards·naaqs·ozone; 80 Fed. Reg. 65,292 (Oct. 26, 2015).

²⁷ Frey, Christopher H., Dr. "CASAC Review of the EPA's Second Draft Policy Assessment for the Review of the Ozone National Ambient Air Quality Standards." Letter to Gina McCarthy. 26 June 2014. Available at http://yosemite.epa.gov/sab/sabproduct.nsf/5EFA320CCAD326E885257D030071531 http://yosemite.epa.gov/sab/sabproduct.nsf/5EFA320CCAD326E885257D030071531 http://yosemite.epa.gov/sab/sabproduct.nsf/5EFA320CCAD326E885257D030071531

CO8 - Sierra Club (cont'd)

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CO8-20 (cont.) impacts to human health. For example, robust chamber studies show significant adverse health impacts to healthy adults exposed to 60 ppb for only 6.6 hours—indicating that sensitive populations such as children could be impacted at even lower levels of ozone, especially for the longer 8 hour timeframes used in setting the standard.²⁹ The photochemical modeling study submitted by Golden Pass indicates that Golden Pass will cause or contribute to ozone levels above 60 ppb. NEPA requires FERC to take a hard look at the impact of this effect. Neither the DEIS nor the photochemical modeling study do so.

CO8-21

Another flaw in the study submitted by Golden Pass is that its cumulative effects analysis appears to exclude some foreseeable projects. The analysis used a "base case" of an expected emission inventory for 2018. Golden Pass Products LNG Export Project Ozone Photochemical Modeling Study at 2·3. The study entirely fails to disclose what future projects were included in this inventory. FERC must explain what projects were included in the assessment of cumulative impacts.

Moreover, a base case of 2018, the first year of anticipated operation of the Golden Pass projects, almost certainly omits the full scope of foreseeable cumulative impacts. Other projects pending before FERC, such as proposed construction of additional liquefaction trains at the Sabine Pass, Cameron LNG, and Freeport facilities, will not be fully operational by January 2018. Golden Pass seeks authorization to operate for 20 years, and its emissions will therefore overlap with those of foreseeable post 2018 projects. NEPA requires FERC to take a hard look at the cumulative impact of these projects.

CO8-22

Finally, the photochemical study fails to provide the cumulative impact analysis required by NEPA because it uses an inappropriate baseline. Specifically, FERC must inform decisionmakers and the public of the cumulative increase in ambient ozone levels attributable to FERC approved projects. To do this, FERC must compare the effects of FERC approvals, individually and cumulatively, with a "no action" baseline in which FERC denies all pending proposals in the affected area. As we have explained above, impacts on ozone levels can be significant even if ozone levels do not rise above the 70 ppb ozone NAAQS. Even if FERC determines

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The photochemical modeling was conducted in accordance with a modeling protocol outlined by EPA Region 6 and utilized a 2018 future emissions inventory developed by TCEQ. More information regarding the TCEQ emissions inventory can be found on the TCEQ Air Modeling FTP site:

tp://amdaftp.tceq.texas.gov/pub/TX/. In addition, section 4.13.2.11 of the EIS includes refined air dispersion modeling for operation of the project, marine vessels, and other offsite sources, and appropriately discloses the cumulative impact of the Project on regional air quality.

CO8-22 See response to comment CO8-21.

²⁹ Kim et al (2011). Lung function and inflammatory responses in healthy young adults exposed to 0.06 ppm ozone for 6.6 hours. Am J Respir Crit Care Med 183: 1215·1221, attached as Exhibit 12; Schelegle et al. (2009) concentrations from 60 to 87 parts per billion in healthy humans. Am J Respir Crit Care Med 180: 265·272 attached as Exhibit 13; Brown et al. (2008). Effects of exposure to 0.06 ppm ozone on FEV1 in humans: A secondary analysis of existing data. Environ Health Perspect 116: 1023·1026, attached as Exhibit 14.

CO8 - Sierra Club (cont'd)

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CO8-22 (cont.) (through some analysis beyond that provided in the DEIS) that no individual project will cause a significant impact, the NEPA regulations recognize that "[c]umulative impacts can result from individually minor but collectively significant actions taking place over a period of time." 40 C.F.R. § 1508.7. Including all past and future FERC-jurisdictional activities in the baseline of the analysis for each individual project obscures the cumulative effect of FERC-approved projects. Accordingly, to determine the aggregate contribution of FERC-approved projects to regional ozone levels, FERC must juxtapose a baseline without any of those projects with an analysis of the cumulative effect of all proposed and foreseeable future facilities.

IV. Impacts of Vessel Traffic

A. The EIS Must Identify the Amount of Vessel Traffic Associated With The Proposed Exports.

CO8-23

FERC must acknowledge that, as a practical matter, the project will likely increase in utilization of existing facilities, in vessel traffic, and otherwise cause impacts relating to the revival of the entirely dormant facility. The applicant itself admits that "In the past few years ... there have been *no* LNG imports to the terminal." Application at 10 (emphasis added).

In discussing vessel traffic, nothing in the DEIS estimates how many ships will be associated with operation of the export facilities. Instead, the DEIS merely asserts that the number of ships, and thus impacts of shipping, will not be more than what FERC previously considered. See, e.g., DEIS 4:35. This fails to provide decisionmakers and the public with a rational basis for choosing between the proposed action and the no action alternative. FERC must identify the number of ships that will be involved in operation of the export facility. Even if this number falls below the number previously approved, FERC must admit that, given the nearly negligible prospects of LNG imports, this vessel traffic will not occur unless FERC approves the export project. 30

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The purpose of the EIS for the proposed modification of the Golden Pass facility is to provide NEPA review for those proposed modifications to the previously authorized Golden Pass LNG import project that could have environmental impacts beyond those previously analyzed. As discussed throughout the EIS, impacts on construction vessel traffic due to the modification of the facility are discussed in detail (e.g., section 4.3.2.2, section 4.6.3.1). There is no intent to modify the LNG vessel traffic as part of the proposed Project compared to that analyzed in the original EIS for the Golden Pass facility, so no additional analysis is warranted. The Coast Guard reinforced this position when it determined than no new Waterways Suitability Assessment was warranted for the proposed Project (as discussed in section 4.12.1.

CO8-23

³⁰ More broadly, it is unclear how the export project, which seeks to export 2.7 bcf/d of LNG, can operate without requiring more shipping capacity than the import project, which only sought to import 2.0 bcf/d. FERC must explain how moving more gas won't require more ships.

CO8 - Sierra Club (cont'd)

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CO8-23 (cont.)

NEPA requires that each federal action be judged against a "no action" baseline. 42 U.S.C. § 4332(E); 40 C.F.R. §§ 1502.14(d), 1508.9. This baseline is intended to provide a fair "benchmark, enabling decisionmakers to compare the magnitude of environmental effects of the action alternatives." 46 Fed. Reg. 18,026, 18,027 (Mar. 23, 1981). Here, if the proposed project is not approved, the existing LNG import terminal will likely see little, if any utilization, and therefore have minimal ongoing operational environmental impacts. Yet in many portions of the draft EIS, FERC masks the fact that the project would revive an otherwise moribund terminal, by measuring the project's effects against the level of activity previously authorized but never actually realized. Because the "current level of activity is used as a benchmark," Custer Cty. Action Ass'n v. Garvey, 256 F.3d 1024, 1040 (10th Cir. 2001), FERC cannot define the baseline in terms of environmental effects that, although potentially previously authorized, have never actually occurred and that will not actually occur in the future but for FERC action here, Accord Cmtvs. for a Better Env't v. S. Coast Air Quality Mgmt. Dist., 48 Cal.4th 310, 328, 106 Cal.Rptr.3d 502, 226 P.3d 985 (2010) ("An approach using hypothetical allowable conditions as the baseline results in 'illusory' comparisons that 'can only mislead the public as to the reality of the impacts and subvert full consideration of the actual environmental impacts,' a result at direct odds with [the state environmental review statute's intent.") (applying state NEPA like statute). "NEPA procedures emphasize clarity and transparency of process," and, for this reason, "courts not infrequently find NEPA violations when an agency miscalculates the 'no build' baseline." N.C. Wildlife Fed'n v. N.C. Dep't of Transp., 677 F.3d 596, 603 (4th Cir. 2012). Failing to provide complete baseline data, or relying on stale or misleading data, violates the statute's requirement that agencies provide a fair benchmark for their decisions. See N. Plains Res. Council v. Surface Trans. Bd., 668 F.3d 1067, 1084.86 (9th Cir. 2011). FERC's analysis must therefore reflect the fact that if the proposed projects are authorized, the impacts will be greater than merely an increase over previously authorized, but never realized, activity.

Although 40 C.F.R. § 1502.20 permits agencies to "tier" off prior analyses in some circumstances, tiering can be improper if new issues have developed since the prior environmental analysis. See W. Watersheds Project v. BLM, 774 F. Supp. 2d 1089, 1098-99 (D. Nev. 2011). Although vessel traffic and other activities were analyzed in previous NEPA documents, FERC must do more than point to those analyses here. For example, once it is acknowledged that approving the project will cause greater vessel traffic than would result from project disapproval, FERC cannot simply point to the prior NEPA analysis as describing the effects of that traffic increase. Tiering off these prior analyses is inappropriate here because in the time since those

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CO8 - Sierra Club (cont'd)

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CO8-23 (cont.) analyses were completed, the area has suffered an increase in other activity and degradation of environmental quality, limiting the ability to withstand future environmental impacts. Here, the draft EIS does not address whether background levels of vessel traffic have increased since FERC's prior analyses were prepared.

B. Ballast Water

CO8-24

In addition, the prior analysis, concerning import traffic, did not address the effects of ballast water discharge, which occurs primarily for exports. The current DEIS states that the effects of ballast water discharge will be minimized by ensuring adherence to "EPA and the Coast Guard regulations that prevent the introduction of exotic species." DEIS $4\cdot72$. However, as Sierra Club has explained in comments on other export facilities, these regulations are insufficient to ensure that ballast water discharges do not harm the environment.

Ballast water discharge is governed by overlapping frameworks of USCG regulations and EPA's General Permit for vessel discharges. The USCG regulations are promulgated under the aegis of an interagency task force created by the Nonindigenous Aquatic Nuisance Prevention Act. 16 U.S.C §§ 4701 etseq. The most recent regulations were promulgated by the USCG in 2012.

The General Permit fits within the Clean Water Act framework for regulating discharges into the waters of the United States. See Vessel General Permit for Discharges Incidental to Normal Operation of Vessels (effective Dec. 19, 2013), available at http://www.epa.gov/npdes/pubs/vgp_permit2013.pdf ("VGP"). It is a permit under the National Pollution Discharge Elimination System that applies to all non-military and non-recreational vessels over 79 feet long (a category that includes all LNG tankers), and it regulates 27 categories of discharge from such vessels, including ballast water. See VGP §§ 1.1·1.2. The EPA issued the most recent VGP in 2013.

The USCG regulations and the VGP ballast water provisions create a complementary scheme regulating ballast water discharges. Both regulatory mechanisms set limits on the number of particular types of organisms that may be present per volume in ballast water intended for discharge into United States waters, 33 C.F.R. § 151.2030; VPG § 2.2.3.5, and both give ship owners and operators a choice of procedures that they may undertake to meet those standards.

18

CO8-24 Ballast water, dredging, and effects on marine species are discussed in section 4.6.3.1 of the EIS. Note that the waterway has been dredged and heavily used for industrial processing and vessel traffic for decades. The Coast Guard is responsible for determining water treatment, not FERC or NOAA Fisheries.

³¹ Standards for Living Organisms in Ships' Ballast Water Discharged in U.S. Waters, 77 Fed. Reg. 17,254 (Mar. 23, 2012).

CO8 - Sierra Club (cont'd)

20160516-5350 FERC PDF (Unofficial) 5/16/2016 4:24:23 PM

CO8-24 (cont.) Owners and operators can choose between any of the following options to reduce the risk of invasive species:

- Install and operate on ship a USCG-approved Ballast Water Management System ("BWMS");
- Fill ballast tanks only with water drawn from a U.S. municipal water system;
- Discharge ballast water to an on-shore facility or another vessel for treatment; or
- · Retain ballast water within ballast tanks while in U.S. waters.

See 33 C.F.R. § 151.2025(a); VGP § 2.2.3.5.1.1-2.2.3.5.1.4.

The USCG regulations require that vessels constructed after December 1, 2013 have the BWMS installed on delivery, and other large vessels must employ a BWMS by their first scheduled dry-docking after January 1, 2016. 33 C.F.R. § 151.2035(b). However, the USCG has extended these deadlines because it has not yet approved any BWMS for use on ships. 32 Until these systems are approved and installed, ships have the additional option of engaging in ballast water exchange at least 200 nautical miles from shore. 33 Moreover, the Coast Guard has granted thousands of compliance extensions for lack of any approved system, the vast majority of which stretch to January 1, 2018. 34

19

³² Enforcement Response Policy for EPA's 2013 Vessel General Permit: Ballast Water Discharges and U.S. Coast Guard Extensions under 33 C.F.R. Part 151 (December 27, 2013), available at http://www2.epa.gov/sites/production/files/2013-12/documents/vesselgeneralpermit-erp.pdf.

³³ The interim ballast water management regime is outlined in a joint USCG and EPA enforcement response policy outlined in a December 2013 letter. *Id.* The USCG has granted extensions to vessels not compliant with the current ballast water discharge standards conditional upon their use of ballast water exchange in the interim, and the EPA has made violations of the VGP discharge standards by ships that have been granted such extensions a "low enforcement priority." *Id.*: see also Extension of Implementation Schedule for Vessels Subject to Ballast Water Management (BWM) Standards (Sept. 25 2013), available at http://www1.veristar.com/veristar/Dps_Info.nsf/1cc36b1a9995d368c1256f81002d874 0/02cb86a73ef38a04c1257c0c002dae5b/8FILE/CG-OESPolicyLetter13·01.pdf.

³⁴ U.S. Coast Guard, Approved Extensions to Compliance Dates under USCG Ballast Water Management Regulations (as of February 16, 2016), attached as Exhibit 15.

CO8 - Sierra Club (cont'd)

20160516-5350 FERC PDF (Unofficial) 5/16/2016 4:24:23 PM

CO8-24 (cont.) More fundamentally, the EIS's discussion of ballast water discharge fails to consider the risk of invasive species introduction that remains even with full compliance with the most current regulations. As Professor Tamburri explains in his expert comments submitted regarding the Cove Point, Maryland export facility, the National Research Council considers the USCG's 2012 regulations a mere "first step" that would reduce but not eliminate this risk, 35 The regular influx of LNG tankers will create the "perfect scenario" for the introduction of invasive species, 36

As explained by University of Maryland Professor Mario Tamburri in comments on another LNG export project, ³⁷ FERC could substantially lessen the risk that ballast water discharges will introduce invasive species into the Bay by requiring a system for on shore treatment of ballast water. As Professor Tamburri notes, shore based systems are best used to mitigate the risk from ballast discharges when there are dedicated vessels, traveling consistent set routes, and with ballast discharge at one specific dock location—all of which would be the case for LNG carriers calling on Golden Pass. In light of the shortcomings of the regulatory regime, FERC should have required measures to mitigate the significant adverse effects.

Similarly, while the DEIS acknowledged the potential for invasive species introduction via fouling organisms attached to the hulls of LNG tankers visiting the Golden Pass facility, the DEIS is deficient because, as with ballast water discharge, FERC disregarded the significance of the threat by referring to USCG regulations. The USCG regulations simply require:

- (e) Rinse anchors and anchor chains when the anchor is retrieved to remove organisms and sediments at their places of origin.
- (f) Remove fouling organisms from the vessel's hull, piping, and tanks on a regular basis and dispose of any removed substances in accordance with local, State and Federal regulations.

20

³⁵ Id. at 3.

³⁶ Id. at 2.

³⁷ Letter from Mario Tamburri, University of Maryland, Center for Environmental Science, Chesapeake Biological Laboratory, to Kimberley Bose, Federal Energy Regulatory Commission (June 2, 2014), Accession No. 20140602-5111 ("Tamburri June 2014 Letter"), attached as Exhibit 16; Letter from Mario Tamburri, University of Maryland, Center for Environmental Science, Chesapeake Biological Laboratory, to Kimberley Bose, Federal Energy Regulatory Commission (Nov. 11, 2013), Accession No. 20131112-5030 ("Tamburri Nov. 2013 Letter"), attached as Exhibit 17.

CO8 - Sierra Club (cont'd)

20160516-5350 FERC PDF (Unofficial) 5/16/2016 4:24:23 PM

CO8-24 (cont.) 33 C.F.R. § 151.2050. The USCG does not provide more detailed guidance on specific procedures for rinsing anchors or the frequency at which vessels must be cleaned of fouling organisms. As Professor Tamburri explained, in failing to specify procedures to reduce the risk of fooling organisms, the regulations give ship owners and operators the discretion to choose their own procedures, which may not be effective. FERC cannot simply assume that, in the absence of specified procedures for removing fouling organisms, the regulations will eliminate the substantial risk of introducing invasive species. Because fouling organisms can spread rapidly and unpredictably from ships, and are an equal or greater source of invasive species than ballast water, the risk to nearby waterways and activities that depend thereon is significant.

V. Conclusion

CO8-

For the above reasons, the EA is deficient and an EIS addressing these deficiencies must be prepared. When the environmental impacts of the project are properly considered, it is clear that the Output Expansion is contrary to the public interest, and must be denied.

Respectfully submitted,

Nathan Matthews

Sierra Club Environmental Law Program

2101 Webster Street, Suite 1300

Oakland, CA 94612 (415) 977-5695

38 Id. at 3.

21

CO8-25

An EIS was prepared for the Golden Pass LNG Export Project to properly address environmental impacts of the Project. Whether or not the Project is in the public interest will be determined by the Commission subsequent to the issuance of the final EIS based on environmental considerations (e.g., the EIS) and non-environmental considerations.

PM1 – VFW Post 4759, Starks, Louisiana

	in the Matter of Se	olden Pass LNG Export Project - April 19, 2016
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PM1 – VFW Post 4759, Starks, Louisiana (cont'd)

	Page 2		Page 4 s	
1	APPEARANCES	1	agencies, local libraries and newspapers. If	
2		2	you did not receive a copy of our draft EIS,	6
3		3	then you're not on mailing list. Please	4
4	MR. ERIC HOWARD	4	provide us with your address at the sign-in	
5	Federal Energy Regulatory Commission	5	table after the meeting if you would like to	
6	MR. WAYNE KICKLIGHTER	6	receive a copy of the final EIS.	
	MS. KIM SECHRIST	8	This is a project proposed by Golden Pass	
7 8	Cardno	9	products, LLC and Golden Pass Pipeline, LLC (collectively referred to as Golden Pass).	
,		10	This project is not proposed by the FERC.	
10		11	Golden Pass filed applications under Sections	
11		12	3 and 7 of the Natural Gas Act to expand and	
12		13	modify the existing Golden Pass LNG Import	
13		14	Terminal to allow the export of LNG which	
15		15	would require construction and operation of	
16		16	various liquefaction, LNG distribution, and	
17		17	appurtenant facilities. The project also	
18		19	includes construction of approximately 2.6 miles of 24-inch diameter pipeline, three new	
19 20		20	compressor stations, and interconnections for	
21	REPORTED BY: Belynda Champagne, CCR-RPR	21	bi-directional transport of natural gas to and	
22	REFORTED BT. Belynda Champagne, CCR-RFR	22	from the Golden Pass LNG Export terminal. The	
23		23	project is located in Orange and Jefferson	
24		24	Counties, Texas and Calcasieu Parish,	
25		25	Louisiana.	
	Page 3		Page 5	4
1	PROCEEDINGS:	1	We are currently in a 45-day comment	•
2	MR. HOWARD: Hello, I'm Eric Howard. On	2	period on the draft EIS. The comment period	
3	behalf of the Federal Energy Regulatory	3	ends on May 16th, 2016. All comments that we	
4 5	Commission, (also known as, the FERC), I would	4	receive within the comment period will be	
6	like to welcome all of you tonight. This is a	5	addressed in the final EIS. We have a speaker	
7	comment meeting for the Golden Pass Liquefied Natural Gas, LNG, Export Project draft	7	signed-up sheet at the back of the room. I would call individuals to speak one at a time.	
8	Environmental Impact Statement, or EIS. The	8	After the people that have signed in have	
9	U.S. Army Corps of Engineers, Environmental	9	provided their comment, I will ask if anyone	
10	Protection Agency, U.S. Coast Guard, U.S.	10	else in the audience would like to speak.	
11	Department of Transportation, and U.S.	11	The purpose of this meeting is for FERC	
12	Department of Energy cooperated in the	12	to obtain your comments on the draft EIS and	
13	preparation of this document, and I would like	13	we take your environmental comments seriously.	
14	to thank them for their continued assistance	14	We give equal weight to your comments whether	
15	with the EIS review process.	15 16	you decide to speak tonight, mail, or submit	
16	With me today is Wayne Kicklighter and	17	them electronically through our FERC website	
18	Kim Sechrist with Cardno. Cardno is an environmental contractor who has helped in our	18	as we revise the draft EIS, Specific instructions on how to file	
19	preparation of the draft EIS.	19	written or electronic comments are contained	
20	Let the record show that the Starks	20	in the first couple of pages of the draft EIS.	
21	comment meeting began at 7:04 p.m. on	21	The more specific the comments we receive from	
22	April 19th, 2016.	22	you, the better we can address your concerns.	
23	On March 25, 2016, we mailed about 500 CD	23	General comment, such as, "I like or dislike	
24	copies of the draft EIS to individuals on our	24	the project," are not as helpful as specific	
25	environmental mailing list, government	25	comments. Our job over the next couple of	4
200000	(Pages 2 to 5)	CASIFORNIA CONTRACTOR		A.

PM1 – VFW Post 4759, Starks, Louisiana (cont'd)

	In The Matter of: Golden Pass LN	IG Export Pr	oject - April 19, 2016			
	Page 6		Page 8			
0	1 months is to revise our environmental analysis 2 based on the types of comments that we	PM	Louisiana. I've been employee at Golden Pass for the last eight years. I am in support of			
AL P	3 receive. 4 If you received a copy of the draft FIS	31-1 4cont'd	the Golden Pass LNG project because as an employee of Golden Pass, it provides for my			
	4 If you received a copy of the draft EIS, 5 you will automatically receive a copy of the	5	family, offers very good compensation and			
	6 final. You do you not need to sign up for	6	competitive benefits, health cure, dental		PM1-1	The commentor's support for the Project is noted
	7 another mailing list. Once we finish the	7	vision, 401-K, matching savings program, et		1 1411-1	The commentor's support for the Project is noted
	8 final EIS and mail it, we will forward it on	8	cetera. It's one of the most safest places to			
	9 to the Commission at the FERC. The Commission	9	work in the industry. Five years without			
	10 will consider our environmental analysis along	10	employee or contractor OSHA reportable injury.			
	11 with non-environmental issues, such as	11	As a Golden Pass employee, safety is a core			
	12 engineering, markets, and rates, in order to	12	value and we walk the walk regarding safety of			
	 determine to authorize or deny the project. So, the EIS itself is one tool in the process. 	14	all our employees. We have created a culture of taking care of each other as employees as			
	 So, the EIS itself is one tool in the process. It is not a decision making document. 	15	well as our communities. The new proposed			
	Now we will begin the important part of	16	expansion would create hundreds more permanent			
	17 the meeting where we hear your comments. We	17	jobs and bring stability and assurance back to			
	18 will first take comments from those who signed	18	our existing employee and contractor			
	19 the speaker list first, which was on the table	19	population.			
	20 as you entered and if you prefer, you may hand	20	We strive for excellence at Golden Pass			
	21 us written comments tonight or send them to	21	LNG in all we do, safety, environment,			
	22 the Commission by following the procedures	22	operational excellence, controls and community			
	23 outlined in the draft EIS. There's also a	23	involvement. I'll stop right there. Thank			
	24 form on the sign-in table that you can use to	24	you.			
	25 provide comments and hand them directly to me,	25	MR. HOWARD: Thank you, Mr. Daniel.			
	Page 7		Page 9			
	 Kim, or Wayne. That form also gives 	1	Reggie Collins.			
	2 instructions on how to mail it to us.	2 PM	MR. REGGIE COLLINS: Good evening,			
	3 You may have noticed that this meeting is	4 1-2	everyone. My name Reggie Collins, R-e-g-g-i-e, C-o-l-l-i-n-s. I also live here			
	 being recorded by a transcription service. This is being done so that all of your 	5	in Lake Charles. I've been at Golden Pass for			
	6 comments and questions will be transcribed and	6	eight years. They provide an opportunity for			
	7 put into the public record. To help the	7	us and I support the proposed LNG export			
	8 transcriber produce an accurate record of this	8	because it cares about the employees and			
	9 meeting, please speak directly into the	9	contractors and also participate in our local			
	10 microphone. I ask that when I call your name.	10	community funds. They like to give back to			
	11 you come up to the microphone and facing the	11	the communities we operate in. We've been			
	12 front, state your name and spell it the	12	active participants and contributed to local		PM1-2	The commentor's support for the Project is noted
	13 record. Identify any agency or group you're	13 14	United Way agencies since the first year as an employee in 2008. We participate in the		11111 2	The commentor's support for the Project is noted
	14 representing, and define any acronyms that you	15	events, support the local colleges and are			
	may use. I also ask that everybody else in the audience respect the speaker and refrain	16	active members of Lamar Institute of			
	the audience respect the speaker and refrain from any audible show of agreement or	17	Technology Foundation and support the			
	18 disagreement. Before we hear from our first	18	activities of student body of Sabine Pass High			
	19 speaker, I would ask that everyone silence	19	school. It's taught the employees to			
	20 their phones.	20	participate in the community coordinating			
	21 The first I have signed up to speak is	21	employees, helping citizens of Sabine help			
	22 David Daniel.	22	rebuild from hurricane funding 1.5 million			
	23 DM MR. DAVID DANIEL: Good evening, David	23	community service for the local residents of			
sonononomente Ba	D-a-v-1-d, Daniel, D-a-n-1-e-i. Hi, my name	25	cleanup for kids and kid fishing camp and as	HARACA SCHOOL COSTON		
	25 1-1 is David Daniel. I'm from Lake Charles		Cleanup to man and an			
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PM1 – VFW Post 4759, Starks, Louisiana (cont'd)

PM 1-2 an employee, we're proud to be associated with the company at Golden Pass. Thank you. MR. HOWARD: Thank you, Mr. Collins. Travis Woods. MR. TRAVIS WOODS: How you-all doing? Travis Woods. MR. TRAVIS WOODS: How you-all doing? Travis Woods. MR. TRAVIS WOODS: How you-all doing? Thanks Wood, Travis Wood, Travis Woods. I marks Wood, Travis Wood, Travis Wood, Travis Woods. MR. TRAVIS WOODS: How you-all doing? Town and operate T & L Solutions. We're a business group from Buna, Texas. Pm also president of Gulf Coast Industrial Group in Lake Charles with over 60 contractor members, engineering groups, as well as general contractors and pretty much all walks of life in the contracting business. I'm also president of the same Gulf Coast Industrial group in Port Arthur, Texas, Port Arthur Chamber of Commerce. We are really excited about the project coning to town as far as a project of this magnitude touches so many people. It's kind in the part of Energy.		Page 10		Page 12	
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MR. HOWARD: Thank you, Mr. Collins. Tirks Woods. MR. TRAVIS WOODS: How you-all doing? Im Travis Wood, Tr-ne-vi-s, W-o-o-d-s. I own and operate T & L Solutions. We're a business group from Buna, Texas. Im also president of Gulf Coast Industrial Group in Lake Charles with over 60 contractor members, engineering groups, as well as general contractors and pretry much all walks of life in the contracting business. I'm also president of the same collic Coast Industrial group in Port Arthur, Texas, Port Arthur Chamber of Commerce to We are really excited about the project coming to town as far as a project of this many people. It's listed of like dominoss falling in nine directions. You'll have a directorator that will be using a dump truck for the first time in years. You'll have a directorator that will be using a dump truck for the first time in years. You'll have a chance to get involved. Itsust to give you a for instance, the Motiva project was 11 to 12 billion. It took 1200 contractors so what the polye getting fuel to and from the project. Those are CP14-517 and CP14-518 vot and access to the documents on public record concerning the project, including all the public fillings by Golden Pass and CP14-518 vot and access to the documents on public record concerning the project, including all the public fillings by Golden Pass and collects in the contracting self-ord in the public fillings by Golden Pass, will stay in the room for a little while longer after the meeting so you may speak with us individually or ask questions. If you would like immediate copies of the transcriber. On behalf of the Federal Energy Regulatory Commission, U.S. Army Corps of Engineers, Environmental Protection Agency, U.S. Coast Guard, U.S. Department of Transportation and U.S. Department of Energy, I want to thank all of you for coming here tonight. Let the record show that the Gold Pass Louisians concluded at 7.1 p.m. (Whereupon the proceedings were concluded) The packed out at 15,000 people on-site before the job was over. Okay. T	2 1-2		2		
MR. TRAVIS WOODS: How you-all doing? Im Travis Wood, T-ra-v-i-s, W-o-o-d-s. I and OPI4-13. For ucan use claimary to gain a caces to the documents on public record concerning the project, including all the public filings by Golden Pass agencies and other lundowners. Lake Charles with over 60 contractor members, engineering groups, as well as ageneral contractors and pretty much all walks of life in the contracting business. Irm also president of the same Gulf Coast Industrial group in Port Arthur, Iras, Port Arthur Chamber of Commerce. We are really excited about the project coming to town as far as a project of this magnitude touches so many people. It's kind of like dominoes falling in mine directions. You'll have a drit contractor that will be using a dump truck for the first time in years. You'll have food vendors and it goes all the way up to general contractor, electrical contractors, as well as engineering the following the project to make the project of momental project in the project of the project in transcribino, please see the domine of the Federal Energy of the transcribino, please see the under transcribino, please see the using a during transcribe. The transcribino please see the using a during transcribe. The transcribe of	3 cont'd	MP HOWAPD: Thonk you Mr Collins	3		
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PM1-3 The commentor's support for the Project is noted.

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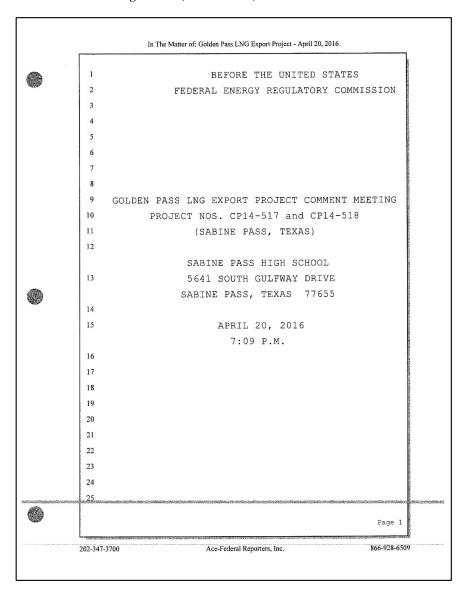
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obtain 5:12 6:13 8:3 10:17.18 safety 8:11,12,21 three 4:19	
offers 8:5 11:4,12,13,25 savings 8:7 time 5:7 10:22	
official 11:23 12:3,6,23 school 9:19 today 3:16	
13 Okay 11:8 proposed 4:7,10 Sechrist 2:6 3:17 tonight 3:5 5:15	
3,21 on-site 11:6,11 8:15 9:7 Sections 4:11 6:21 12:21	
23 Once 6:7 Protection 3:10 see 12:14 tool 6:14	4

PM1 – VFW Post 4759, Starks, Louisiana (cont'd)

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	touched 11:8 touches 10:19	10:23 you-all 10:5 11:14			(Me)
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	use 6:24 7:15 11:25	2016 1:14 3:22,23			
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radiotrocerroceroce Mas	year 9:13			CONTRACTOR OF THE STREET STREET	WAS COMMON TO BE ASSESSED TO SERVICE OF THE SERVICE
	years 8:2,9 9:6				
1000	1	1	1	1	8

PM2 - Sabine Pass High School, Sabine Pass, Texas



	Page 4	1	Page 2	
	2016.	1	APPEARANCES	1
	On March 25th, 2016, we mailed out 500 CD	2	11112111111020	2
	copies of the draft EIS to individuals who are	3		3
	on our environmental mailing list,	4	MR. ERIC HOWARD	
	governmental agencies, local libraries and	5	Federal Energy Regulatory Commission	5
	newspapers.	6	MR. WAYNE KICKLIGHTER	6
	If you did not receive a copy of the	7	MS. KIM SECHRIST	
	draft EIS, then you're not on our mailing	8	Cardno	7
	list. Please provide us with your address at	9		8
	the sign-in table after the meeting, if you	10		9
	would like to receive a copy of the final EIS.	12		10 11
	This is a project proposed by Golden Pass	13		12
	Products, LLC and Golden Pass Pipeline, LLC, collectively referred to as "Golden Pass."	14		13
	This project is not proposed by the FERC.	15		14
	Golden Pass filed applications under	16		15
	Sections 3 and 7 of the Natural Gas Act to	17		16
	expand and modify the existing Golden Pass LNG	18		17 18
	import terminal to allow the export of LNG,	19		19
	which would require construction and operation	20		20
	of various liquefaction, LNG distribution and	21	REPORTED BY: Belynda Champagne, CCR-RPR	21
	appurtenant facilities.	22	, , , , , , , , , , , , , , , , , , , ,	22
	The project also includes construction of	23		23
	approximately 2.6 miles of a 24-inch-diameter	24		24
	pipeline, three new compressor stations, and	25		
4	Page 5		Page 3	
	interconnections provide directional transport	1	PROCEEDINGS:	2
	of natural gas to and from the Golden Pass LNG	2	MR. HOWARD: Good evening. I'm Eric	3
	export terminal.	4	Howard. I'm the FERC environmental project manager for this project. On behalf of the	4
	The project is located in Orange and Jefferson counties. Texas and Calcasieu	5	Federal Energy Regulatory Commission, also	5
	Parish, Louisiana.	6	known as the FERC, I would like to welcome all	6
	We are currently on a 45-day comment	7	of you tonight.	7
	period on the draft EIS. The comment period	8	This is a comment meeting for the Golden	8
	ends on May 16, 2016. All comments that we	9	Pass Liquefied Natural Gas, LNG, export	9
	received within the comment period will be	10	project draft environment impact statement, or	10
	addressed in the final EIS.	11	EIS.	11
	We have a speaker sign-up sheet at the	12	The U.S. Army Corps of Engineers,	12
	back of the room, actually, at the entrance.	13	Environmental Protection Agency, U.S. Coast	13
	I will call individuals to speak one at a time	14	Guard, U.S. Department of Transportation and	14
	after the people that have signed in have	15	U.S. Department of Energy cooperated in the	15 16
	provided their comment, otherwise, if anyone	16	preparation of this document, and I would like	16
	else in the audience would like to speak.	17	to thank them for their continued assistance	18
	The purpose of this meeting is for FERC	18	with the EIS review process. With me today is Wayne Kicklighter he	19
	to obtain your comments on the draft EIS, and	19	with me today is Wayne Kicklighter he was at the entrance as you came in today	20
	we take your environmental comments seriously.	20	and Kim Seacrest. They're both with Cardno.	21
	We give equal weight to your comments, whether	21 22	Cardno is an environmental contractor who has	22
	you decide to speak tonight, mail or submit	22 23	helped in the preparation of the draft EIS,	23
	them electronically through our FERC website, as we revise the draft EIS.	24	Let the record show that the Sabine Pass	24
d	g .	25	comment began at 7:09 p.m., on April 20th,	25
18	Specific instructions on how to file	2.5	····	

PM2 – Sabine Pass High School, Sabine Pass, Texas (cont'd)

	Page	5	Page 8
in.	written or electronic comments are contained	1	any acronyms that you may use.
	2 in the first couple of pages of the draft EIS.	2	I also ask that everyone else in the
2 Par	3 The more specific the comments we receive	3	audience respect the speaker and refrain from
	4 from you, the better we can address your	4	any audible show of agreement or disagreement.
	5 concerns. General comments, such as "I like"	5	Before we hear from our first speaker, I
	6 or "dislike the project" are not as helpful as	6	will ask that everyone, please, silence their
	7 specific comments.	7	phones.
	8 Our job over the next couple of months is	8	The first person I have on the sign-up
	9 to revise our environmental analysis based on	9	sheet is Jeff Hayes.
	10 the types of comments that we receive. 11 If you received a copy of the draft FIS	10 PM	MR. HAYES: Thank you very much.
	if you received a copy of the than 213,	12 2-1	Eric, my name is Jeff Hayes. Hayes Real
	12 you will automatically receive a copy of the 13 final. You do not need to sign another	13	Estate. I hope you can hear me. MR. HOWARD: Spell your name.
	 final. You do not need to sign another mailing list. 	14	MR. HAYES: Jeff, J-E-F-F. Hayes,
	15 Once we finished the final EIS and mailed	15	H-A-Y-E-S.
	16 it, we will forward it onto the commission at	16	I would like to say I did get a copy
	the FERC. The commission will consider our	17	and of your executive summary.
	18 environmental analysis along with	18	On Page 7 of the executive summary, I
	19 non-environmental issues, such as engineering.	19	would like to agree especially with that last
	20 markets and rates, in order to determine to	20	point: "FERC's environmental and engineering
	21 authorize or deny the project. So, the EIS	21	inspection and mitigation-monitoring program
	22 itself is one tool in the process. It is not	22	for this project would ensure compliance with
	23 a decision-making document.	23	all mitigation measures and conditions of any
	Now, we will begin the important part of	24	FERC authorization."
	25 the meeting where we hear your comments. W	25	I'm familiar with this site before Golden
9	Page will first take comments from those who signed	1	Page 9
	in on the speaker list.	32-1	run cows there. I think this company is very
	3 If you would prefer, you may hand us 4 written comments tonight or send them to the	4 cont'd	environmentally friendly, and they take their duty to this Country and to our nature here
	5 commission by the following procedures	5	very seriously.
	6 outlined in the draft EIS.	6	1 just want to tell you the first time I
	7 There is also a form at the sign-in table	7	ever heard of Golden Pass. Fr. Sinclair
	8 that you can use to provide comments and hand	8	Oubre, who runs the seaman center in Port
	9 them directly to me, Wayne, or to Kim. That	9	Arthur, called me and said, "There's going to
	10 form also gives instructions on how to mail it	10	be a new facility, and we're trying to finish
	11 to us.	11	up our center on Houston Avenue in Port
	You may have noticed that this meeting is	12	Arthur."
	being recorded by a transcription service.	13	He said, "I want to have lunch with them
	14 This is being done so that all of your	14	and I wish you would join us and maybe you can
	15 comments and questions will be transcribed an	1 15	ask them for the money."
	par into the paone record.	17	So, I said, "Well, Fr. Oubre, how much
	to help the transcriber produce air	18	money do you want?" And he said, "Well, \$10,000."
	 accurate record of this meeting, please speak directly into the microphone. 	19	And he said, Well, \$10,000. And so, we were having lunch and I asked
	20 I ask that when I call your name, you	20	for the \$10,000. This company said, "We're
	21 come up to the microphone, which is going to	21	going to double that. We're going to do
	be at this podium to my right or your left.	22	\$20,000."
	facing the front, toward us, and state your	23	And this was very important at the time
delegeneemense Ba	name and spell it for the record, identity any	reason need the second across	for the sedman center that takes care of
	25 agency or group you're representing and define	25	people bringing this product now out of this
	The contract was the property of the contract	STATE OF SOLUTIONS AS A STATE OF SOLUTIONS	3 (Pages 6 to 9)

PM2-1 The commentor's support for the Project is noted.

PM2 - Sabine Pass High School, Sabine Pass, Texas (cont'd)

swould 3 J-A-C-K-S-O-N. Do you need my address? MR. HOWARD: No. MR. Howard: No	facility and go all over the world. They've been good citizens when they thought that the import of natural gas would it to the right thing to do, but you-all know that the economics changed on that. I want to just say that these are good people. They'll do what they say they're going to do and this is a — if you go to the site now, if's well-done, and they didn't cut corners. Thank you very much.
swould 3 J-A-C-K-S-O-N. Do you need my address? MR. HOWARD: No. MR. How ho is a Mustin for a series of meetings. Tm here to speak for him, myself. I know Commissioner Alfred from our commissioners court is here. Commissioner Sinegal is here and I may - I'm going to take the liberty of trying to speak for them. They may be signed up. but we have learned in working with Golden Pass, that these are people of integrity. They have gene overboard to do more than they've ever promised, delivering on their construction, safety — you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of environmental projects, the McFaddin Wildlife Refuge, they helped us, along with Ducks Unlimited, Fease Parks & Wildlife, U.S. n, and	They've been good citizens when they thought that the import of natural gas would be the right thing to do, but you-all know that the economics changed on that. I want to just say that these are good people. They'll do what they say they're going to do and this is a — if you go to the site now, it's well-done, and they didn't cut corners.
bod 6 PM S MR. HOWARD: No. MR. HOWARD: No. MR. HOWARD: The breach of behalf of Judge Branick, who is in Austin for a series of meetings. The here to speak for him, myself. I know Commissioner Alfred from our commissioners court is here. Commissioner Singal is here and I may - I'm going to take the liberty of trying to speak for hem. They may be signed up, but we have learned in working with Golden Pass, that these are people of integrity. They have gone overboard to do more than they've ever promised, delivering on their construction, safety you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the same of the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partnered with us on a number of entire the partner	be the right thing to do, but you-all know that the economics changed on that. I want to just say that these are good people. They'll do what they say they're going to do and this is a — if you go to the site now, it's well-done, and they didn't cut corners.
MR. HOWARD: No. MR. JACKSON: I'm here on behalf of Judge Branick, who is in Justin for a series of meetings. I'm here to speak for him, myself. I know Commissioner Alfred from our commissioners court is here. Commissioner Commissioners court is here. Commissioner Commissioners court is here. They may be signed up, but we have learned in working with Golden Pass, that these are people of integrity. They have gone overboard to do more than they've ever promised, delivering on their construction, safety — you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of with Conservation, U.S. Fish and a number of Conservation, U.S. Fish and a number of	that the economics changed on that. I want to just say that these are good people. They'll do what they say they're going to do and this is a — if you go to the site now, it's well-done, and they didn't cut corners.
bod 6 PM MR. JACKSON: I'm here on behalf of Judge Branick, who is in Austin for a series of to the in't cut 9 Branick, who is in Austin for a series of meetings. The ner to speak for him, myself. I know Commissioner Alfred from our commissioners court is here. Commissioner Single is here and I may - I'm going to take the liberty of trying to speak for them. They may be signed up. but we have learned in working with Golden Pass, that these are people of integrity. They have gene overboard to delivering on their construction, safety — you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of environmental projects, the McFadin Wildlife Refuge, they helped us, along with Ducks Unlimited, Fexus Parks & Wildlife, U.S. on, and 24 Conservation, U.S. Fish and a number of	I want to just say that these are good people. They'll do what they say they're going to do and this is a if you go to the site now, it's well-done, and they didn't cut corners.
yre 7 2-3 Branick, who is in Austin for a series of meetings. The here to speak for him, myself. It hayes.	people. They'll do what they say they're going to do and this is a if you go to the site now, it's well-done, and they didn't cut corners.
Throw Commissioner Alfred from our commissioner court is here. Commissioner Alfred from here are did not consider the liberty of trying to speak for them. They may be signed up, but we have learned in working with Golden Pass, that these are google of integrity. They have gone overboard to do more than they've ever promised, delivering on their construction, safety—you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of environmental projects, the McFaddin Wildlife Refuge, they helped us, along with Ducks Unlimited, Texas Parks & Wildlife, U.S. on, and	going to do and this is a - if you go to the site now, it's well-done, and they didn't cut corners.
meetings. Tm here to speak for him, myself. In't cut I haves. Hayes. Ha	site now, it's well-done, and they didn't cut corners.
commissioners court is here. Commissioner commissioners court is here. Commissioner commissioners court is here. Commissioner Sinegal is here and I may – I'm going to take the liberty of trying to speak for them. They may be signed up, but we have learned in working with Golden Pass, that these are foolfhill in the to do more than they've ever promised, delivering on their construction, safety – you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of environmental projects, the McFaddin Wildlife Refuge, they helped us, along with Ducks Unlimited, Texas Parks & Wildlife, U.S. n, and 24 Conservation, U.S. Fish and a number of	corners.
Sinegal is here and I may I'm going to take the liberty of trying to speak for them. They may be signed up to the whee learned in working with Golden Pass, that these are people of integrity. They have gone overboard the to do more than they've ever promised, delivering on their construction, safety you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of with the speak of the speak of the speak of the speak they are the speak of the speak of the speak to speak of the speak of the speak of the speak to speak of the speak of the speak of the speak to speak of the speak of the speak of the speak to speak of the speak of the speak of the speak to speak of the speak of the speak of the speak of the speak to speak of the s	
Hayes. 12 the liberty of trying to speak for them. They may be signed up, but we have learned in working with Golden Pass, that these are Golfhill in 15 people of integrity. They have gone overboard to do more than they've ever promised, delivering on their construction, safety — you name it. Now, I'll build on what Mr. McCoy said. 19 Now, I'll build on what Mr. McCoy said. Now, I'll build on what Mr. McCoy said. 10 environmental projects, the McFaddin Wildlife Refuge, they helped us, along with Ducks Unlimited, Texas Parks & Wildlife, U.S. 10 n, and 24 Conservation, U.S. Fish and a number of	
may be signed up, but we have learned in working with Golden Pass, that these are Golfhill in 15 people of integrity. They have gone overboard to do more than they've ever promised, delivering on their construction, safety — you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of entire they helped us, along with Ducks bes, 3,000 23 Unlimited, Texus Parks & Wildlife, U.S. on, and 24 Conservation, U.S. Fish and a number of	
McCoy, Golfhill in working with Golden Pass, that these are people of integrity. They have gone overboard to the to do more than they've ever promised, delivering on their construction, safety — you name it. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of with Characteristic and the same of the same o	MR. HOWARD: Thank you, Mr. Hayes. Our next speaker is Bill McCoy.
Golfhill in 15 people of integrity. They have gone overboard to do more than they've ever promised, of Arthur 17 delivering on their construction, safety — you name it. ment 19 Now, I'll build on what Mr. McCoy said. Now, I'll build on what Mr. McCoy said. They have partnered with us on a number of environmental projects, the McFaddin Wildlife Refuge, they helped us, along with Ducks Unlimited, Texas Parks & Wildlife, U.S. n, and 24 Conservation, U.S. Fish and a number of	MR. McCOY: My name is Bill McCoy,
the 16 to do more than they've ever promised, delivering on their construction, safety— 18 you name it. ment 19 Now, I'll build on what Mr. McCoy said. 199. For 20 They have partnered with us on a number of environmental projects, the McFaddin Wildlife 21 environmental projects, the McFaddin Wildlife 22 Refuge, they helped us, along with Ducks bes, 3,000 23 Unlimited, Texas Parks & Wildlife, U.S. m, and 24 Conservation, U.S. Fish and a number of	B-I-L-L M-C-C-O-Y. I live at 7831 Golfhill in
nrt Arthur 17 delivering on their construction, safety — you name it. 18 you name it. 19 Now, I'll build on what Mr. McCoy said. 19 For 20 They have partnered with us on a number of entire with 21 environmental projects, the McFadid Wildlife 12 environmental projects, the McFadid Wildlife 12 environmental projects, the McFadid Wildlife 12 environmental projects, the McFadid Wildlife 15 entire 12 environmental projects, the McFadid Wildlife 15 entire 14 environmental projects and project 15 environmental projects and project 15 environmental projects and project 15 environmental projects 15 environmental pr	Port Arthur, Texas 77642. I'm also the
ment 18 you name it. Now, I'll build on what Mr. McCoy said. 199. For 20 They have partnered with us on a number of environmental projects, the McFaddin Wildlife Refuge, they helped us, along with Ducks Unlimited, Texas Parks & Wildlife, U.S. n, and 24 Conservation, U.S. Fish and a number of	president and CEO of the Greater Port Arthur
99. For 20 They have partnered with us on a number of environmental projects, the McFaddin Wildlife Refuge, they helped us, along with Ducks unlimited, Texas Parks & Wildlife, U.S. on, and 24 Conservation, U.S. Fish and a number of	Chamber of Commerce.
99. For 20 They have partnered with us on a number of environmental projects, the McFaddin Wildlife 22 Refuge, they helped us, along with Ducks 0s, 3,000 23 Unlimited, Texas Parks & Wildlife, U.S. Conservation, U.S. Fish and a number of	We've been an economic development
22 Refuge, they helped us, along with Ducks bs, 3,000 23 Unlimited, Texas Parks & Wildlife, U.S. n, and 24 Conservation, U.S. Fish and a number of	organization in Port Arthur since 1899. For
bs, 3,000 23 Unlimited, Texas Parks & Wildlife, U.S. n, and 24 Conservation, U.S. Fish and a number of	116 years, this chamber has worked with
n, and 24 Conservation, U.S. Fish and a number of	partners to attract industry.
Conservation, 6.5. I ist and a number of	Golden Pass, generating 9,000 jobs, 3,000
	at their peak, 45,000 across the nation, and
is very 25 others, with the use beneficial use of	millions of dollars in property taxes, is very
Page 11 Page 13	Page 11
mployment 1 dredge material, trying to improve our	important to an area with a high unemployment
	rate. We need those jobs. We need those
our shrimping, fishing, crabbing and	taxes.
	We also understand they have to be
	environmentally responsible. This company
	already has demonstrated that with the setting
	aside of 800 acres for the ecosystem and
8 project, we would want to make it clear we see	animal preserve.
	They've also contributed 3 million cubic
strategic necessity.	yards of material to renew the J.D. Murphree Wildlife Park and System after Hurricane Ike
They we been good stewards. They we	devastated it in 2008.
material are taste trent, an incy to occur in	They belong to our education foundation.
Charge with.	They recognize the importance of education in
helping build a new community center for over	our community.
	They recognize the importance of safety,
a minion and a man action in the page	having an outstanding safety record. They
	care about the community. They care about the
here, and 19 school district.	environment and we need those folks here, and
pediting 20 They've contributed in every conceivable	we speak very much in support of expediting
	this permit so that we can attract those jobs
	and those taxes to the city of Port Arthur,
overperform, as they have, and I would say	Texas.
that we see any delay in granting this FERC	Thank you.
er is Fred 25 permit as being detrimental in every way you	MR. HOWARD: Our next speaker is Fred

PM2-2 The commentor's support for the Project is noted. PM2-3 The commentor's support for the Project is noted.

		In The Matter of: Golden Pass LN	G Export Pro	pject - April 20, 2016			
		Page 14		Page 16			
	¹ PM ² 2-3	can conceive of. Thank you.	PM 2 2-4	facilities and Golden Pass has been a huge supporter of LIT.			
	4 cont'd	MR, HOWARD: Dade Phelan. If I pronounce anyone's name wrong,	cont'd	I can tell you it's tough sometimes to get the state to understand what LIT does for			
	5	please correct me.	5	this community as far as workforce			
	6 PM	MR. PHELAN: That was an excellent job.	6	development. Golden Pass, they're well aware		PM2-4	The commentor's support for the Project is noted.
	7 2 1	It's usually "Dale Failin" or something else,	7	of that.			The commentor o support for the Project is noted.
	1 .	but that's an excellent job.	8	I should have mentioned I'm the state			
	9	Where are you from?	9	representative here for Southeast Texas.			
	11	MR. HOWARD: Tennessee.	11	You're in my district right now. Welcome. I actually am a property owner directly			
	12	MR. PHELAN: That's okay. That's fine. It's a great night to talk about LNG. 1	12	across an LNG facility. If you hit a golf			
	13	appreciate you-all being here. Thank you,	13	ball if you're good enough to hit a golf			
	14	FERC, for giving us the opportunity. Of	14	ball straight, you'd hit a piece of property			
	15	course, Golden Pass LNG, thank you-all for	15	that I own. So, I have a vested interest in			
	16	being such great community partners here in	16	this neighborhood.			
	17	Southeast Texas.	17	I also represent all of Orange County	I		
	18	I can go on and on about the investment	18 19	where the pipeline goes through before it hits			
	19 20	and what it means to this region, but, really,	20	Calcasieu Parish. I have not run into one individual who opposes this project, not a			
	21	we're here to talk about the environment and Golden Pass' record here in Southeast Texas	21	single person. We are we welcome them with			
	22	and some of the facts have already been	22	open arms.			
	23	brought up.	23	I think "overperform" was a word that was			
	24	There are 800, you know actually,	24	used very well by Mr. Jackson. That's all			
	25	3 million cubic yards of material used to	25	Golden Pass has done since they've been here,			
		Page 15		Page 17			
tom?	1	restore the J.D. Murphree Wildlife Management	1	is they've overperformed and, you know, I			
	2	Area had been brought up. They also	2	agree with the impact statements.	e e e e e e e e e e e e e e e e e e e		
	3	contributed more than 800 acres of forest	3	I got the CD. I'm going to be honest. I			
	5	lands forest and wetlands for wildlife	4 5	didn't go through the whole thing. When you			
	6	protection here in Southeast Texas. What they did after Hurricane Ike and	6	get a CD these days, it means it's too lengthy to E-mail. So, I didn't read the whole thing.			
	7	you, you know, being from Tennessee, may not	7	I did read the parts about where you			
	8	understand what a hurricane does to a	8	conclude the new facility would not result in	a constant		
	9	community, but it can be devastating and the	9	significant environmental impacts and I agree			
	10	saltwater intrusion here, where we stand right	10	with that 100 percent.			
	11	now, was devastating for Sabine Pass and for	11	I think this community does and I know			
	12	all of Southeast Texas.	12 13	I speak for at least the folks I've met with			
	13	Golden Pass came in and got both feet on	14	on this matter here in Jefferson and Orange County, and we're in full support of that.			
	15	the ground. They were unbelievably supportive of this community. They spent one and a half	15	I appreciate the opportunity to speak.			
	16	million dollars for the new community center,	16	Thank you.			
	17	which I was at last week, to unveil a new boat	17	MR. HOWARD: The next speaker is	TAN COLOR		
	18	launch that LNG was actually involved in it,	18	Elizabeth Cravens.			
	19	as well as Parks & Wildlife and Ducks	19 PM	MS. CRAVENS: It's Elizabeth Cravens,	o de la companya de l	PM2-5	The commentor's support for the Project is noted.
	20	Unlimited. The list goes on and on.	20 2-5	E-L-I-Z-A-B-E-T-H C-R-A-V-E-N-S.			· ·
	21	I was at a clay fund shoot for LIT, in	21 22	Thank you for providing us the opportunity to speak in support of the	i I		
	22 23	which Golden Pass was one of the original	23	proponent's Golden Pass LNG export project.	0		
	2.3 24	corporate sponsors of and LIT is they train and workforce development men and women here	azelidensersensen	I staned tvird-America Contractors about	MESANASH PERIODEN		
	25	in Southeast Texas, they actually built these	25	12 years ago, with offices now in Port Arthur,	N. STATE CO.		
	SCOOL SERVICE ROOMS			5 (Pages 14 to 17)	R		
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PM2 – Sabine Pass High School, Sabine Pass, Texas (cont'd)

Groves and Deer Park, Texas. Mid-America is a certified weman-owned business that offers a range of industrial insulation and field maintenance. The reality is being a woman in a male-driven industry means that my company's excise send to be the very best, most cost-effective and timely in order to compete for work. It has taken a lot of hard work and determination to get Mid-America where it is today. Tens of billions of dollars have been invested in new industrial projects in our area in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses, like in the past few years. Every industrial project promised to hire local businesses in dround a creative southon to give local businesses a fair shake. In October of 2015, Colden Pass actioned the priority list of the project promised to hire tender package that goes out to EPC's bidding on this project. More than 180 local businesses signed up for the initiative and Golden Pass paid all of those few, which range from 5750 to 51,000 a piece. That's never been done before. The proud to say Mid-America successfully completed pre-screening and was placed on the priority list all gask. Is support the proposed export project the priority list all gask. Is support the proposed export project the because Golden Pass recognizes that their opportunity can be componentially, and fairly, no strings attached. As a woman, that is the eason. In c		Page 18		Page 20	
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	14 This i	is an initiative that we that I ngly as an economic development and that should be replicated in e America, and we are proud to have our community and urge you to look yo no this draft and issue the final cheduled. k you. HOWARD: The next speaker is Jerry FOSTER: My name is Jerry Foster, -Y F-O-S-T-E-R. I live in Orange, Page 23 I've been an employee of Golden Pass	14 15 16 17 18 19 20 21 22 23 24 25	work at one of the safest places in the industry. Golden Pass has sought the employee base to be an active participant and community leader. You've heard many examples of that. I will mention one additional one and one of my favorites. That was the participation in the annual beach cleanup and the kid lish events. We encourage participation in community outreach and school programs. As an employee, I'm proud to be associated with a company such as Golden Pass			
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	22 MR. 1 23 Foster. 24 PM MR. 1 25 2-7 J-E-R-R- 1 Texas. 1 2 for six y	HOWARD: The next speaker is Jerry FOSTER: My name is Jerry Foster, -Y F-O-S-T-E-R. I live in Orange, Page 23 Twe been an employee of Golden Pass	22 23 24 25	events. We encourage participation in community outreach and school programs. As an employee, I'm proud to be associated with a company such as Golden Pass Page 25			
	23 Foster. 24 PM J-E-R-R- 25 2-7 J-E-R-R- 1 Texas. 1 2 for six y	FOSTER: My name is Jerry Foster, -Y F-O-S-T-E-R. J live in Orange, Page 23 I've been an employee of Golden Pass	23 24 25	community outreach and school programs. As an employee, I'm proud to be associated with a company such as Golden Pass Page 25			
	24 PM MR. 1 25 2-7 J-E-R-R 1 Texas. 1 2 for six y	-YF-O-S-T-E-R. 1 live in Orange, Page 23 Pre been an employee of Golden Pass	24 25	As an employee, I'm proud to be associated with a company such as Golden Pass Page 25			
	25 2-7 J-E-R-R. 1 Texas. 1 2 for six y	-YF-O-S-T-E-R. 1 live in Orange, Page 23 Pre been an employee of Golden Pass	25	associated with a company such as Golden Pass Page 25			
	1 Texas. 1 2 for six y	Page 23 I've been an employee of Golden Pass	1	Page 25			
	2 for six y	I've been an employee of Golden Pass	1				
	2 for six y	I've been an employee of Golden Pass	1				
	2 for six y			LNG.			
			2	I thank you for the opportunity to state			
		ot a public speaker. In fact, it's	3	my support for the Golden Pass export project.			
	111110	ny greatest fears in life. So, that	1 4	Lurge FERC to look favorably on the Golden			
		ndicate to you how important this is	5	Pass draft EIS and issue the final EIS as			
	6 to me.		6	scheduled.			
		port the proposed Golden Pass LNG	7	Thank you.			
		roject because as an employee of	8	MR. HOWARD: The next speaker is Dwaine			
		Pass, it provides for my family. It's	9	Staudenmier.			
		ne safest places to work in the	10 PM	MR. STAUDENMIER: Dwaine Staudenmier.			
		. We consider safety a core value,	111 20	You could definitely spell my last name, but			
		walk the talk regarding safety for our	1	it's D-W-A-I-N-E S-T-A-U-D-E-N-M-I E.R.		PM2-8	The commentor's support for the Project is noted.
	13 employe		13 14	And I just want to speak a little bit on			The commentor a support for the Project is noted.
	THE	new proposed expansion would create a more hundreds more permanent jobs	14	the perspective of from an employee. It's kind of like Jerry did.	I		
	manus e u	stability and assurance back to our	16	Actually, after hearing some of the			
	to oring	workforce and contractor population.	17	comments from everybody else, it really makes			
		all give those the means to provide for	18	me much more prouder than I already were			
		nilies and also work in one of the	19	was to be an employee of Golden Pass, to be			
	20 safest pl	aces to work in the industry.	20	thought of as we are in the community.			
		strive for excellence in all that we	21	As an employee for Golden Pass, some of			
		ety, environmental, operational	22	the things that they do for us we all go to	I		
		ce, controls and community	23	work to make money. We all are in business to	A SAN CONTRACTOR AND		
willow.	LIVOIVEI	nent. en Pass participates in local	24 25	make money and as we go to work, we go to work for our families. Family there is the most			
	I MARKO MOREO CARACTERISTA CONTROL CARACTE		A STATE OF THE PARTY OF THE PAR	7 (Pages 22 to 25)			
20	02-347-3700	Ace-Federal I	Reporters, In	ic. 800-928-0305			
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PM2 – Sabine Pass High School, Sabine Pass, Texas (cont'd)

	Page 26		Page 28	
¹PM	important thing.	1 03.6	fixing started doing is the blood drive.	
² 2-8	Golden Pass is a family is my second	PM	We're helping our blood banks. It's a new one	1
32-8	family. They provide good benefits for my	3 2-8	that we've interacted into our programs.	
₄cont'd	family: Health care, dental, vision, 401.	4 cont'd	Sabine Pass High School we did stuff	
5	They're very competitive compared to the other	5	here. I actually got to participate in a	
6	industries.	6	science judging deal. It was a pretty good	
7	I've been in the business for a little	7	experience for me. It brung me back to my	
8	over 20 years, for other well-known companies	8	school years.	
9	as well, and Golden Pass' value on safety is	9	Just as an employee, I'm very proud to be	
10	equal to or probably surpasses some of the	10	associated with Golden Pass, and I encourage	
11	other ones that I worked with. It makes me	11	the FERC to move forward with the granting of	
12	very proud to work there.	12	the environmental impact statement.	
13	As Mr. Hayes said earlier about how	13	Thank you.	
14	diligent we are and how confident we are that	14	MR. HOWARD: J. Shane Howard.	
15	he is with us and steward of the environment.	15 DM	MR, SHANE HOWARD: I'm Shane Howard.	
16	I have to reiterate on that, and I agree with	16 PiVI	S-H-A-N-E H-O-W-A-R-D. I'm here tonight on	
17	him very much so because I'm one of the ones	17 2-9	behalf of the Sabine Pass Port Authority. I'm	
18	that help manage that.	18	sitting in the back.	
19	Our management team expects that of us	19	The Sabine Pass Port Authority has been	
20	and we carry that all the way down through the	20	here, on the ground, very similar to what the	
21	workforce.	21	school district has, through all the travails	
22	As Jerry said, the new proposed expansion	22	of hurricanes through the ups and downs of the	
23	is going to create hundreds of permanent jobs,	23	local economy, et cetera.	
24	as well as thousands of contractor jobs for	24	One of the consistent corporate citizens	
25	the area. It's very good for the area, for	25	who has been there to help out the port, who	
	Page 27		Page 29	4
1.	this project to go forward.	1	has helped out the school district, who has	
2	Our core values are one of our big	2	help out the community has been Golden Pass.	
3	things. Core values we've used those to	3	What they've done for the county, what	
4	help build our culture. We don't really look	4	they've done for the region, what they've done	
5	at them as values. We look at them as helping	5	for the city of Port Arthur, what they've done	
6	us build our culture, the way we do our	6	for the school district, what they've done for	
7	business.	7	the port is absolutely extraordinary.	
8	Golden Pass genuinely cares about its	8	At the risk of being redundant with some	
9	employees. Back when "Ike" had come through,	9	of these things, they take care of the	
10	back in 2008, I wasn't an employee then, but	10	workers. They take care of their municipal	
11	just hearing stories from some of the other	11	entities that they work with.	
12	employees, the way that they were treated with	12	As it relates to the environmental impact	
13	Golden Pass, who weren't able to work for a	13	study, No. 1, the draft was excellent, and it	
14	while, Golden Pass really took care of them.	14	was great to see, because it bears out an	
15	So, as an employee, it's really nice to	15	actual fact, you know. To see the science	
16	know that your company that you're working for	16	behind what we all know on the ground to be	
17	can do that for you.	17	true is very, very important.	
18	They're active in I can list all the	18	When I first moved back to this area, as	
19	ones that everybody else is talking about here	19	a native of Port Arthur, this was a beach for	
20	tonight. The list goes on and on, and it	20	us, coming down the Sabine Pass and going down	
21	continues to grow.	21	past Sea Rim, when we still had the beach	
22	We support the local United Way very well	22	road.	
23	and we continue to look for opportunities, to	23	When I first moved back to Southeast	
24	continue to support.	24	Texas, Sea Rim was closed. I drove down	
25	One of the other things that we started	25	there. I had no idea whether it was open. It	6
				,

PM2-9 The commentor's support for the Project is noted.

PM2 - Sabine Pass High School, Sabine Pass, Texas (cont'd)

		Page 30		Page 32	
	1 PM	was bombed out.	1 PM	demonstrated their continued concern for	
9	² ₃ 2-9	Because of the efforts of people like	² ₃ 2-10	environmental stewardship in an effort to	
,		Golden Pass and the leadership exercised on	3 2-10	ensure that not only the developments on the	
	₄ cont'd	the ground, we not only have a great place for	₄ cont'd	site respect the fragile lake and marsh	
	5	local residents as well, but you will always	5	ecosystems, but will also provide experiences	
	6	run into people at a corner gas station who	6	for the users that respect and embellish the	
	7	were from out of the area, who would down to	7	coastal marsh experience.	
	8	kayak, who would come down to spend time at a	8	Their community leadership has been	
	9	good, clean beach, who would want to go out on	9	exhibited in their concern that the master	
	10	the nature trail there. Without the corporate	10	plan not only presented activities for	
	11	partners like we have like Golden Pass, that	11	fishermen, but also opportunities for	
	12 13	would not take place.	12	ecotourism. The master plan provides fishing,	
	14	They do more than check the box. They	14	birding, boating, picnicking and exercise	
	15	actually go above and beyond in every facet of their relationship with the community, not	15	activities for the community. Their commitment to safety extends beyond	
	16		16	the physical LNG facilities in their concern	
	17	only take care of the communities that they're a part of, but also to take care of the	17	for vehicular access and egress to the fish	
	18	environment.	18	pass site and user safety while on site. Much	
	19	So, when you're doing an industrial	19	time was spent on addressing the needs and	
	20	facility like that, to see somebody go well	20	implementing solutions for user safety.	
	2.1	beyond what is required, well beyond what is	21	In closing, it is obvious from the	
	22	good, just public relations, it's	22	activities already performed by the Golden	
	23	inspirational.	23	Pass LNG that the economic benefits to our	
	24	They're a great corporate partner. The	24	community through the creation of jobs,	
	25	Port Authority is excited to see this project	25	assistance to small area businesses and	
À		Page 31		Page 33	
y		_			
	1	move forward. We encourage you to expedite it	1 2	generation of tax dollars this project is	
	2 3	as quickly as possible.	3	truly a win-win for our community.	
	3	Thank you very much. MR. HOWARD: Dohn Labiche.	4	Thank you for the opportunity to publicly state my support for the Golden Pass LNG	
		MR. LABICHE: Very good. For a guy from	5	export project. I urge that the FERC to look	
	PIVI	Tennessee and a cajun name, that's really	6	favorably upon the project and issue the final	
	7 2-10	good.	7	EIS as scheduled.	
	8	Dohn Labiche, D-O-H-N L-A-B-I-C-H-E.	8	Thank you.	1
	9	I support the proposed Golden Pass LNG	° PM	MR. HOWARD: Jim Rich.	
	10	export project because I have firsthand	10	MR. RICH: Good evening. I'm Jim Rich.	ě
	11	knowledge of the economic benefits,	11 2-11	You heard from the current president of	
	12	environmental stewardship, community	12	Greater Beaumont Chamber of Commerce. I'm the	
	13	leadership and commitment to safety exhibited	13	former president, having retired last summer,	
	14	by their staff and their leadership based in	14	after almost 15 years in that role. I'm also	2
	15	Sabine Pass.	15	a former commissioner for the Sabine Neches	
	16	I'm an architect who has been working	16	Navigation District.	
	17	closely with Golden Pass LNG on a project to	17	So, I'm sitting here and kind of blown	Ž.
	18	improve the recreational opportunities for the	18	away. When you retire, you kind of forget	
	20	citizens of Jefferson County. The project is	19	things quickly, and all these things we heard	
	21	to master plan the Walter Umphrey State Park, Keith Lake Fish Pass, a recreational fishing	20	tonight are reminding me because I was an	Š.
	22	area located adjacent to the LNG site.	21 22	eyewitness to almost all of it.	
	23	Golden Pass LNG, through meetings with	22 23	This is a great corporate citizen and,	
CONTRACTOR OF STATE	enconsideran en	state wildlife agencies, county officials,	23 24	obviously, a great steward of the environment, and so, I just want to offer my support on	ALTERNOON .
)	25	conservation groups and end users, has	25	behalf of the retirces of our area.	ALCONO.
	SECENTIAL PROPERTY.		2.000 to 200 to 300 (4.00 a)	9 (Pages 30 to 33)	g E

PM2-10 The commentor's support for the Project is noted.

PM2-11 The commentor's support for the Project is noted.

Thanks. MR. HOWARD: Delores Prince. MS. PRINCE: Thank you. Deloris Prince, D-E-L-O-R-I-S Pk-I-N-C-E. I am the mayor of the city of Port Arthur. You know, I was just blown away when I learned of all of the benefits that are going to be coming from this project, not only here on a local level, but clearly across the country. Several months ago, when I looked at the numbers 320 billion in at sera, 45,000 jobs across the country, \$4.6 billion in taxes that would effect the local, the state and the national government. That is amazing. I was here in Sabine after "Ike." I was here after "Rita." But after "Ike." there were many, many meetings that were held in this room with Golden Pass personnel, and the objective was, how do we help Sabine rebuild this beautiful community and they did just that. The community building that has been donated to the city of Port Arthur, the 1.5, Page 35 was built with this community in mind, because Golden Pass is a stable forne here in the Sabine Pass community. Let Els as well as the final permit itself. Golden Pass has been an exemplary environmental steward. They've been a good heighbor to everyone and they've brought many, many posts to the area. Again, on behalf of the Port of Port Arthur, we fully support the moving forward on the ElS as well as the final permit itself. Mg. HOWARD: Larry Richard. MR. HOWARD: Larry Richard. The Let A-R-D. I am the fire chief of the city of Port Arthur, and, yes, Sabine Pass coming to this area, topology the part of the city of Port Arthur, and yes, Sabine Pass commi		PM2-12	The commentor's support for the Project is The commentor's support for the Project is
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Not only that, but when they came to work 4 backfill overtime cost. They pay our lodging.			
here to rebuild this community, they came not 5 They pay our travel.			
in their suit clothes. They became a part of 6 Golden Pass has been an excellent partner			
the family members of and I've always said 7 and I urge you guys to move forward with this I love Sahine Pass because I love this family 8 shide on time. Let's not be late. Let's get		PM2-14	The commentor's support for the Project i
I love Sabine Pass because I love this family that they have. Everybody is a big family study on time. Let's not be late. Let's get it done on time.		1 1412-14	The commentor's support for the Project i
here. Well, Golden Pass became part of that			
family. 11 PM MR. GRIFFITH: Thank you, Welcome to our			
So, I am so much in support of this 12 2-15 community. I'm Carl Griffith, as county			
project, and I'm praying that you-all will 13 judge, a former county judge and both of my			
speed up the process and approve the EIS. 14 predecessors, Judge Walker and Judge Branick,			
Thank you-all so much. 15 all of us have supported this project from Day			
MR. HOWARD: John Comeaux. 16 1.			
MR. COMEAUX: You missed that one. John 17 I worked very closely with the plant manager of Exxon Mobil when it began in the			
12			
process of raiding the lands have and going			
I'm John Comeaux. I'm pleased to be here 20 through this initial process with FERC. Lean tell you from the very first day.		PM2-15	The commentor's support for the Project i
Total ten you not the very more any		11112 13	The commentor is support for the Hoject
commissioners of the Port of Port Arthur. On behalf of the Port of Port Arthur, 1 22 this project started, they have been active in our community and not only just active in a			
state that the Port of Port Arthur supports 24 way of creating jobs and providing tax base to			
Golden Pass efforts in the final approval of 25 our community, but also they've been good			
(Pages 34 to 37)			

PM2 - Sabine Pass High School, Sabine Pass, Texas (cont'd)

		Page 38		Page 40 #
	l ma c	stewards of the environment.	1	MR. HOWARD: That's all the speakers that
*	PM	They've been involved in nearly every	2	we had signed in at this time. Is there
300	² ₃ 2-15	environmental project in south Jefferson	3	anyone else that would like to speak?
	4 cont'd	County and they've changed they've put	⁴ PM	MR. SINEGAL: Mike Sinegal, Michael
	5	money into our environment that we didn't have	FIVE	Shane Sinegal, M-I-C-H-A-E-L S-I-N-E-G-A-L.
	6	to put in as a local government.	6 2-17	I'm county commissioner of Precinct 3,
	7	The city of Port Arthur worked hand in	7	which is the area you're in, Sabine Pass, Port
	8	hand with us to see that they would locate	8	Arthur. Sabine Pass is part of Port Arthur.
	9	this community, because if you look at the	9	I don't want the mayor to look cross-eyed at
	10	state of Texas, you'll find that we have some	10	me but I also cover all the way to Chambers
	11	of the highest unemployment in the state and	11	County.
	12	have had for decades.	12	I was in on the first project that Golden
	13	These jobs are important jobs, and at the	13	Pass had here and one of the things we haven't
	14	same time, they do good things for our	14	touched on is coastal erosion.
	15	environment. I'd ask you, because of the	15	I think one of the things that Golden
	16	stranded gases, as a pilot and I have clients	16 17	Pass has done as well as some of the other
	17	all over the state of Texas, New Mexico,	18	industry on Pleasure Island is stabilize our
	19	Oklahoma, Louisiana, and I fly quite often and	19	shoreline where we're having to stabilize it
	20	I see the flaring across the Eagle Ford, the Permian Basin, all that flared gas is an	20	with our funds from our county, copper and different things. I think that's one issue.
	21	opportunity for America to sell that outside	21	We're hoping that Sempra also will come and
	22	and help our environment worldwide and the	22	help it stabilize even further.
	23	longer it takes to get this permit out, the	23	One thing I also brag about is Sabine
	24	longer it's going to take until we impact the	24	Pass School District. We have hundreds of
	25	environment in a positive way.	25	kids that travel that road every morning and
a	***************************************	D 20		D 41
9		Page 39		Page 41
	1	So, I beg you guys to do all you can to	1	every evening going back and forth.
	2	get this permit processed and out so these	2 3	We've had zero I think the
	4	folks can start sending that gas out the	4	superintendent is here, and we've had zero
	5	pipeline and doing good things for other people.	5	incidence of any issues with Golden Pass or any industry in this area that's caused any
	6	MR. HOWARD: Paul Beard.	6	problems.
	7 PM	MR. BEARD: My name is Paul Beard,	7	One of the things that I remember 1
	8 2-16	P-A-U-L B-E-A-R-D. I reside at 3220 Eugenia	8	was on the city council at the time is
	9 2-10	Lane in Groves, Texas. I'm the chairman of	9	everyone on Pleasure Island came unglued and
	10	the board of the Sabine Neches Navigation	10	said they're going to take all the cold water
	11	District. I'm a business owner in the city of	11	and destroy the fish when they build the first
	12	Port Arthur.	12	segment.
	13	We have as a navigation district,	13	I remember going to town hall meetings,
	14	we've worked with Golden Pass from the very	14	and a lot of the homeowners on Pleasure Island
	15	get-go on their existing project, working with	15	was complaining about the process that the LNG
	16	them to find a place to put their dredge	16 17	shift would bring in and dredge I mean,
	17	material, working with them through the Corps	17	just do devastating damage to our intercoastal
	18	of Engineers' process, and we've found them to	18	waterway right outside where LNG.
	20	be really great folks to work with. They've shown themselves to be very environmentally	20	We don't have any of them here tonight. That's a testament to how well that project
	21	responsible.	21	went, and I'm sure with the leadership that
	22	And we're really excited about their	22	Golden Pass have now, it will continue in that
	23	present project and we do urge FERC to look	23	mold.
energe en	and the same of the same of	favorably upon granting them the necessary	manife and the same	So, I'm in support of it as county
	25	permits as soon as possible.	25	commissioner of this precinct, and as Fred
	CONTROLS COLORS		ACT AND DESCRIPTION OF THE PARTY OF THE PART	11 (Pages 38 to 41)

PM2-16 The commentor's support for the Project is noted.

PM2-17 The commentor's support for the Project is noted.

31 30 30 30 30 30 30 30 30 30 30 30 30 30			
	Page 42	A Section 1	
PM	said, Commissioner Alfred is here. He came		
² ₃ 2-17	just to listen and judge is in Austin but I		
4 cont'd	think this court has been very favorable to industry and we have a partnership that we		
5	brag all over the nation.		
6	So, I thank you and I ask that you grant		
7	the permit.		
8	MR. HOWARD: Thank you.		
9	Are there any additional speakers?		
10	Well, since I didn't see any additional		
11	speakers, I will go ahead and close the formal		
12	part of this meeting.		
13	Anyone wishing to keep up with the		
14	official activity associated with the Golden		
15	Pass LNG export project can use the FERC	100	
16	website, www.ferc.gov.		
18	Within our website, there's an E-library		
19	link where you can type in the docket numbers for this project. Those are CP14-517 and		
20	CP14-518.		
21	You can use E-library to gain access to		
22	the documents on the public record concerning		
23	the project, including all the public filings		
24	by Golden Pass, agencies and other landowners.		
25	I, as well as representatives from Golden	e e e e e e e e e e e e e e e e e e e	
	Page 43	*3424	
1	Pass, will stay in the room for a little while		
2	after the meeting. So, you may stay put as		
3	individually or ask questions.		
4	If you would like immediate copies of the	53.00 m	
5	transcription, please see the transcriber.		
6	On behalf of the Federal Energy		
7	Regulatory Commission, U.S. Army Corps of		
8	Engineers, Environmental Protection Agency,		
9	U.S. Coast Guard, U.S. Department of	l l	
10	Transportation and U.S. Department of Energy,		
12	I want to thank you-all for coming here		
13	tonight.		
14	Let the record show that the Golden Pass LNG export project comment meeting in Sabine		
15	Pass, Texas concluded at 8:00 p.m.		
16	Thank you.		
17	(Whereupon the meeting was adjourned)		
18			
19			
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APPLICANT

AP1 - Golden Pass Products



May 16, 2016

Honorable Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, NE, Room 1A Washington, DC 20426

Re: OEP/DG2E/Gas 2

Golden Pass Products LLC and Golden Pass Pipeline LLC Docket Nos. CP14-517-000 and CP14-518-000 Golden Pass LNG Export Project Comments on the Draft Environmental Impact Statement

Dear Ms. Bose:

On March 25, 2016, the Federal Energy Regulatory Commission ("Commission") issued the Draft Environmental Impact Statement ("DEIS") for the Golden Pass Products LNG Export Project applications pending in the referenced proceedings.

Enclosed for filing are the Comments of Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") (collectively referred to as "Golden Pass") on the DEIS. Golden Pass' comments are detailed in Attachment No. 1 in a table format that (1) refers to the applicable section of the DEIS; (2) provides an excerpt of the relevant text; (3) provides Golden Pass' comment; and (4) suggests language proposed for incorporation into the DEIS to resolve the comment.

Attachment No. 2 provides suggested DEIS table revisions which relate to the export project's footprint. Attachment No. 3 provides suggested revisions to acreages listed in the DEIS text based on the export project's footprint. Attachment No. 4 provides an update to Table 1.5-1 of the DEIS which is the *Major Permits, Approvals, and Consultations for the Golden Pass LNG Export Project*. Attachment No. 5 provides a copy of Golden Pass' January 14, 2016 submission (Accession No. 20160114-5171) concerning the status of property extension acquisition and control.

Golden Pass has previously filed responses to the 14 recommended mitigation measures in the DEIS that required updated information and/or documents prior to the end of the DEIS comment period.

Three Allen Center • 333 Clay Street • Suite 802 • Houston, TX 77002 • Tel: 713-860-6361 • Fax: 713-860-6344

APPLICANT

AP1 - Golden Pass Products (cont'd)

Golden Pass appreciates the opportunity to comment on the DEIS. Should you have any questions about this filing, please feel free to contact Mark Burley at (713) 860-6357 or Jennifer Monopolis at (832) 625-4895.

Respectfully submitted,

Richard D. Smith

Senior Regulatory Affairs Consultant Golden Pass Products LLC

Golden Pass Products LLC Golden Pass Pipeline LLC

cc: Service List, Docket No. CP14-518-000 Anthony E. Howard, FERC Staff

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APPLICANT

AP1 - Golden Pass Products (cont'd)

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Golden Pass Products LNG Export Project (GPX Project)



Golden Pass Products LLC ("GPP") and
Golden Pass Pipeline LLC ("GPPL")
FERC Docket Nos. CP14-517-000 and CP14-518-000
Comments to Draft EIS

Attachment 1

Golden Pass Products LNG Export Project Docket Nos. CP14-517-000 and CP14-518-000 Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)

DEIS Comment Matrix

	doinon	Pass Pipelii	10		FERC Docket Nos. CP14-517-000 and CP14-518-0 Comments to Draft t		
Г	Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)						
c	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution	
E	xecutive Sun						
1		Executive Summary	ES-1	Golden Pass proposes to construct and operate conshor natural gas liquefaction and associated facilities to allow the export of liquefed natural gas (LNG) in Texas, and to construct, own, operate, and maintain a new interstate natural gas pipeline, three new compressor stations, and an allary facilities in Texas and Louislana.	The project does not involve a new interstate pipeline. Suggest staling that it is expansion of an existing system.	Revise statement to "Colden Pass proposes to construct and operatio ensher enaltral gas liquefaction and associated facilities in Texas and Louisians to allow the export of fiquefield natural gas (LMG), and to construct, own, operate, and maintain expansion of an existing interstate natural gas pipeline, consisting of three new compressor stations, and ancillary facilities in Texas and Louisians."	
2		Pipeline Expansion	ES-2	Golden Pass would modify existing interconnections and metering facilities associated with other pipeline systems, including Natural Gas Pipeline Company of America (MP 1). Texmos Pipeline Company (MP 33), TGP (MP 63), TETCO (MP 68), and Transcontinental Gas Pipeline Company (MP 68), and Transcontinental Gas Pipe systems; and construct and operate associated facilities, including joje receivers and launchers and mainline valves.	Suggest edit, insertion of 'the'.	Revise statement to "Gother Pass would modification in cristing interconnections and methoding facilities associated with other pipeline Systems, including the Natural Gas Pepeline Company of America (NB*1), Texoma Pipeline Company (NB*3), Texoma Pipeline Company (NB*3), Texoma Pipeline Company (NB*3), Texoma Pipeline Company, LC (NB*6), Systems, and construct and operate associated facilities, including pip receivers and stuncture 2 and maintine valves.	
3	V	Public Involvement	ES-3	On September 19, 2013, the FERC issued a Notice of Intent to Prepare an Environmental Assessment for the Planned Golden Pass LNG Export Project and Golden Pass LNG Export Pipeline Project, Request for Comments on Environmental Issues, and Notice of Public Scoping Meeting.	Suggest insertion of a footnote to darify that the decision was made to complete an EIS instead of an EA on June 24".	Suggested footnote "In a June 24, 2014 Project Update issued during the pre-filing process, the PERC provided notice that it intended to prepara an EIS for the planned project instead of an EA.	

AP1-1	The text in the Executive Summary has been clarified.
AP1-2	The text in the Executive Summary has been clarified.
AP1-3	The text in the Executive Summary has been clarified.

	Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)							
Co	mment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution		
4		Wetlands	ES-4	Construction of the Terminal Expansion would affect a total of 381.4 acres of wetlands; 372.5 acres would be permanently filled during operation of the Terminal Expansion.	Filling would occur during construction. Suggested text clarifies this.	Revise statement to: "Construction of the Terminal Expansion would affect a total of 381.4 acres of wellands; 372.5 acres would be permanently filled during construction of the Terminal Expansion."		
5		Land Use	ES-4	The existing terminal includes outdoor lighting that consists primarily of downlighting for safety and lights on tall structures for aircraft warnings.	The existing tanks do not have lights for aircraft warning.	Revise statement to: "The existing terminal includes outdoor lighting that consists primarily of downlighting for safety."		
6		Air Quality and Noise	ES-5	The Air Quality Permit 116055 and the Prevention of Significant Deterioration Air Quality Permit PSDTX1386 for the Terminal Expansion and MP 1 compressor Station were issued by the TCBO on January 16, 2015, authorizing construction and operation of the Terminal Expansion.	Should include reference to Texas Commission on Environmental Quality (TCE)) issued Permit GHGPSDTX100 (September 11, 2015).	insert statement: The Air Quality Fermit 11605, and the Prevention of Significan Intertexination Air Quality Permit PSD/Y1386 for the Terminal Expansion and MP I Compressor Station were issued by the TOEQ on January 16, 2015, authorizing constructions and operation of the Terminal Expansion. On September 11, 2015, the TOEQ is supported Permit GHEPSD/Y100 (the Intel air preconstruction permit for the upparable terminal) to Golden Pserior Stations of the Stationary of the Stati		
		Section 4.11.1.3 / Federal Air Quality Requirements	P4-127	On January 16, 2015, the TCEQ issued Permits 116055 and PSDTX1385 to Golden Pass, authorizing construction and operation of the expanded terminal.		insert statement: 'On January 16, 2015, the TCEG issued Permits 116035 and PSDTX1386 to Golden Pass, authoriting construction and operation of the expanded terminal. On September 11, 2015, the TCEG issued Permit GHGPSDTX100 (the final air preconstruction permit for the expanded terminal) to Golden Pass.'		

AP1-4	The text in the Executive Summary has been clarified.
AP1-5	The text in the Executive Summary has been clarified.
AP1-6	The text in the Executive Summary has been clarified.

	ÆGolden	Pass Pipelii	10		FERC Doc	ket Nos. CP14-517-000 and CP14-518-00 Comments to Draft El				
				Golden Pass Product	s LNG Export Project					
	Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)									
	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution				
7	7	Air Quality and Noise	ES-5	Golden Pass anticipates filing their minor NSR permit application for the MP 33 Compressor Station no later than the first quarter of 2016 to ensure that the required permit would be obtained within 18 months of construction, as required by the TCEQ air permitting regulations.	Golden Pass has updated the status of major permits, approvals, and consultations for the Project. See Attachment No. 4.	Revise statement to: "Colden Pass anticipates filling their minor NSR permit application for the MP 33 Compressor Station no later than the first quarter of 2014 2018 to ensure their the required permit would be obtained within 18 months of construction, as required by the TCEQ air permitting regulations."				
	Section 1 - Int	roduction								
1-8	8	Introduction	1-1	Golden Pass anticipates initiating export of LNG in 2020 and beginning full production (up to 15.6 mtpy) in 2021.	Golden Pass has updated the status of major permits, approvals, and consultations for the Project. Based on the revisions, Golden Pass has also updated its construction schedule.	Revise statement to: "Golden Pass anticipates initiating export of LING in 2020 2021 and beginning full production (up to 15.6 mtpy) in 2021-2022."				
					See Attachment No. 4.					
-9	9	Section 1.5 Table 1.5-1	1-10/12	Table 1.5-1 – Major Permits, Approvals, and Consultations for the Golden Pass LNG Export Project	Golden Pass has updated the status of major permits, approvals, and consultations for the Project.	Revise table as noted in Attachment No. 2.				
					See Attachment No. 4.					
	Section 2 - Pro	posed Action								
10	10	Section 2.1.1	2-1	Golden Pass constructed the existing terminal to import LNG and to requasify and transport natural gas to the United States from foreign markets.	Suggest a revision to indicate ownership of the terminal, construction of the pipeline, and further clarify the purpose of the existing terminal.	Revise statement to: "Golden Pass <u>Terminal</u> <u>LLC and GPPL</u> constructed the existing terminal <u>and pipeline</u> to enable the importation of LNG from foreign countries for end-to-requestly reassification and transportation to, estimate ge-to the United States <u>domestic from foreign</u> markets."				

AP1-7	The text in the Executive Summary has been updated with this new information.
AP1-8	The text in section 1.0 has been updated with this new information.
AP1-9	The text in section 1.5 has been updated with this new information.
AP1-10	The text in section 2.1.1 has been updated with this new information.

	A .	Pass Produc Pass Pipelir				ducts LNG Export Project (GPX Project) Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPP") ket Nos. CP14-517-000 and CP14-518-000 Comments to Draft EIS			
Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)									
İ	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution			
	11	Section 2.1.1	2-1	Golden Pless is currently submotized to receive a maximum of 200 LNG carriers per year at the terminal.	The U.S. Coself Caust's May 13, 2013 correspondence regarding the GPX Project, which was submitted in Appendix 19 of 1979 ment part (emphase added). "Tip to open time the province of 15.6 MTA will remain at approximately 200 weepste per codlined in reference (c). The company of the term is the term in the company of the term in the company of the co	Revine statement to "Golden Plasa is currently authorized to never approximately 200 LNG carriers per year at the terminal."			
	12	Section 2.0	2-3	Figure 2.0-2 - Liquefaction Project Site Map	The area which Golden Pass has opted to purchase is not depicted; only the original Golden Pass LNG Property Boundary is shown.	Revise figure to include the 281 acres property extension Golden Pass signed an option for, as provided to the FERC Docket on January 14, 2016 (Accession No. 20160114-5171). See Altachment No. 5.			
					4				

AP1-11 The text in section 2.1.1 has been clarified.

AP1-12 Figure 2-3 has not been revised as Golden Pass filed that they had purchased the purchase option on January 14, 2016, but did not publicly file the associated map.

4	Golden Pass Products Golden Pass Pipeline LC. Golden Pass Pipeline LC. FERC Docket Nos. CP14-517-000 and CP14 Comments to									
Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)										
ľ	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution				
	13	Section 2.2.1	2-6	While Golden Pass would construct and operate the majority of the facilities within the existing Golden Pass property, the Terminal Expansion also would include about 215 acres of additional adjacent land that is privately owned.	Golden Pass signed an option for 281 acre property extension as provided to the FERC Docket on January 14, 2016 (Accession No. 20160114-5171). See Attachment No. 5, referenced in Comment No. 12 above.	Revise statement to: "Golden Pass would construct and operate the majority of the facilities within the existing Golden Pass property. Golden Pass has secured an option to purchase a 281 acres property extension."				
	14	Section 2.2.1.1	2-6	Two gas-fired turbine generators, each equipped with a heat recovery steam generator, would power each liquefaction train.	Statement is not technically correct. The reference should be to gas- fired turbines, not gas-fired turbine generators.	Revise statement to: "Two gas-fired turbines, each equipped with a heat recovery steam generator, would power each liquefaction train."				
	15	Section 2.2.1.1	2-6	During the heavy hydrocarbon removal process, hydrocarbons lighter than pentane (i.e., methane, ethane, propane, and butane) would either be recycled to the beginning of the liquefaction process (described below) or routed to the fuel gas system.	Revised for technical accuracy.	Revise statement to: <u>Treated ass from During</u> the heavy hydrocarbon removal process containing, hydrocarbon is fighter than pentane (i.e., methane, ethane, propane, and butane) would <u>entitle</u> either be-recycled-to the beginning of the kiquefaction process (described below) and a <u>portion would be</u> en-routed to the fuel gas system as make un fittel?				
	16	Section 2.2.1.1	2-6	Liquefaction utility components would include a boil off gas (BCG) system, fuel gas system, hot oil system, flares, instrument and utility air systems, and a demineralization water unit.	Statement is not technically correct. There is no hot oil system planned.	Revise statement to: "Liquefaction utility components would include a boil off gas (BOG) system, fuel gas system, fuel oil system-steam system, flares, instrument and utility air systems, and a demineralization water unit."				
	17	Section 2.2.1.2	2-7	Golden Pass anticipates a delivery frequency of less than four trucks per month to the facility.	Suggest to clarify that would be for normal operations.	Revise statement to: "Golden Pass anticipates a delivery frequency of less than four trucks per month to the facility during normal operations."				
	18	Section 2.2.1.3	2-8	Electrical power would be generated for the Terminal Expansion through use of both high-pressure and low- pressure steam to drive new steam turbine generators in each of the three liquefaction trains.	Statement is not technically correct. Low-pressure steam would not be used.	Revise statement to: "Electrical power would be generated for the Terminal Expansion through use of high-pressure steam and low pressure sleam-to drive new steam turbine generators in each of the three liquefaction trains."				

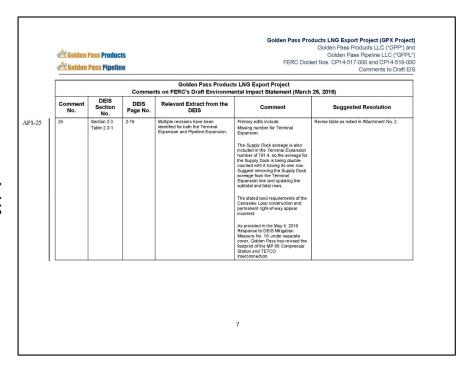
AP1-13	The text in section 2.2.1 has been updated.
AP1-14	The text in section 2.2.1.1 has been clarified.
AP1-15	The text in section 2.2.1.1 has been clarified.
AP1-16	The text in section 2.2.1.1 has been clarified.
AP1-17	The text in section 2.2.1.2 has been clarified.

The text in section 2.2.1.3 has been clarified.

AP1-18

	A	Pass Product Pass Pipelin				ducts LNG Export Project (GPX Project) Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") (ket Nos. CP14-517-000 and CP14-518-000 Comments to Draft Els	AP1-19	The text in section 2.2.1.5 has been clarified
			Comme	Golden Pass Product	ts LNG Export Project	25, 2016)	AP1-20	The text in section 2.2.1.5 has been correcte
	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution		
1-19	19	Section 2.2.1.5	2-11	replacement of two existing pumps in each of the five LNG storage tanks with a larger operations pump and a larger spare pump to meet the LNG loading requirements;	Statement is not technically correct. Two pumps are required, the second pump is not a spare.	Revise statement to: "* replacement of two existing pumps in each of the five LIMS storage tanks with a larger operatione pumps and a larger-opera-pump to meet the LIMS loading requirements:		
P1-20	20	Section 2.2.2.1	2-13	The expansion would extend from an interconnection with a surface facility operated by TETCO near MP 63 of the existing Golden Pass Pipeline to a new compressor station near a surface facility operated by TGP near MP 66 (see figures 2.0-3 and 2.0-4 and appendix B)	The pipeline interconnect names for MP 63 and MP 66 are reversed.	Revise statement to: "The expansion would extend from an interconnection with a surface facility operated by TGP near MP 63 of the existing Golden Pass Pipeline to a new compressor station near a surface facility operated by TGP one MP 64 (see figures 2.0-3 and 2.0-4 and appendix B)."	AP1-21	The text in section 2.2.2.2 has been clarified
1-21	21	Section 2.2.2.2 / Compress. Stations	2-14	The MP 1 Compressor Station would have two electrically driven, 5,583-hp turbines and the MP 33 Compressor Station would have two gas-driven, 8,997-hp turbines	Not technically correct as written.	Revise statement to: "The MP1 Compressor Station would have two electrically driven, 5,583- hp compressors and the MP 33 Compressor Station would have two 0,997-hp gas turbine driven compressors."	AP1-22	The text in section 2.2.2.2 has been corrected
P1-22	22	Section 2.2.2.2 / Compress. Stations	2-14	The low pressure system would include two gas-driven, 8.475-hp turbines to mix the natural gas stream from the Transco interconnection (MP 68.5) with the natural gas streams from the TETCO and TGP interconnections (MPs 66 and 63, respectively).	Typo in reporting the horsepower number. The decimal point in the horsepower figure should be a comma.	Revise statement to "The low pressure system wood include hospackiven, Afric harmines to mix the natural gas stream from the Transco interconnection (MP 6.8) with the natural gas streams from the TETCO and TGP interconnections (MP 6.8 of S), respectively)."		
1-23	23	Section 2.2.2.2 / Launchers/Re ceivers and Mainline Valve	2-14	One new MLV would be installed along the existing Golden Pass Pipeline at about MP 69.6.	The mile post number listed is incorrect.	Revise statement to: "One new MLV would be installed along the existing Golden Pass Pipeline at about MP 66."	AP1-23	The text in section 2.2.2.2 has been corrected
21-24	24	Section 2.3 2.3.1	2-15	All onshore areas would be graveled or otherwise stabilized to prevent erosion.	To describe it as "all onshore areas" is not correct. Only disturbed areas would be graveled or otherwise stabilized.	Revise statement to: "All disturbed areas would be graveled or otherwise stabilized to prevent erosion."		
					6		AP1-24	The text in section 2.3 has been clarified.

AP1 - Golden Pass Products (cont'd)



AP1-25 The text and tables throughout the EIS have been updated with the new acreage information provided by Golden Pass.

AP1 – Golden Pass Products (cont'd)

Æ Golden	Pass Produc	ts			Golden Pass Products LLC ("GPP") as Golden Pass Products LLC ("GPP") as Golden Pass Pipeline LLC ("GPPL")	
≜ Golden	Pass Pipelii	10		FERC Doc	ket Nos. CP14-517-000 and CP14-518-00 Comments to Draft E	
		Comme		cts LNG Export Project lental Impact Statement (March 25, 2016)		
Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution	
26	Section 2.4	2-18	Golden Pass antilopiates constructing and placing the Terminal Expansion in service in three phases, with construction starting in 2016 construction of the second laugefaction train and service by July 2020. Construction of the second laugefaction train would begin about if ornois after installand of construction of the ferminal office of the 2016 construction of the ferminal starting in 2016 construction of the Place in 2016 construction of the 3016 constructio	Golden Pase has updated the status of major permits, approvals, and consultations for the Project. Based on the evidence. Golden Based on the evidence. Golden construction schedule. See Attachment No. 4.	Bevies statement to "Golden Pass anticipates constructing and picing for Terminal Expansion in service in three phases, with construction in service in three phases, with construction in service in the phase of th	
27	Section 2.6.1.1	2-20	The expanded levee would have a height of 16 feet above mean lower low water (thereby exceeding the 100-year flood level).	The height of the levee is incorrectly stated as 16 ft. above Mean Lower Low Water. The levee height is elevation 16 feet in reference to the North American Vertical Datum of 1988 (NAVDBS). The elevation of the levee is stated correctly in 4.12.1.3.	Revise statement to "The expanded levee would have a height of 16 fleet (NAVD 88) (thereby exceeding the 100-year flood level)."	

AP1-26 The text in section 2.4 has been updated with this new information.

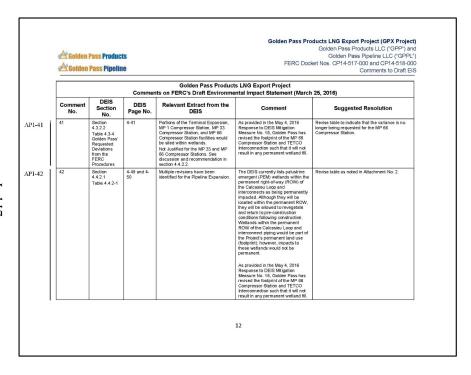
	ien Pass Produc Ien Pass Pipelir				oducts LNG Export Project (GPX Project) Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") ket Nos. CP14-517-000 and CP14-518-000 Comments to Draft EIS
		Comme	Golden Pass Product	s LNG Export Project	1 25, 2016)
Comme No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution
28	Section 2.6.1.9	2-23	The fourth outfall would be collocated with the eastern berth of the Ship Slip at a depth of -15 feet (NAVD 88).	In accordance with Golden Pass' National Pollutant Discharge Elimination System application, the outfall pipe will be located at a port depth (centerline) of -4.57 m mean sea level (MSL.)15.42 ft. NAVD88. Suggest clarification.	Revise statement to: "The fourth outfall would be collocated with the eastern berth of the Ship Slip at a depth of approximately -15.4 feet (NAVD 88).
29	Section 2.6.4.1	2-33	Golden Pass would hydrostatically test all facility piping, both shove and below ground, before it is placed in service. Prior to discharge, Golden Pass would test the hydrostatic water in accordance with its LDEC Hydrostatic Test Water Discharge Permit, which requires testing for oil and grease and pH, and monitoring of the discharge water for	Since this section includes the MP1 and MP33 Compressor Stations in Texas, as well as the pipeline components in Louisiana; it should also reference the appropriate Texas agencies,	Revise statement to: 'Golden Pass would' hydrostatically lest aff scidilly pings, obth above and below ground, before it is placed in service. Prior to discharge, Golden Pass would feet the hydrostatic water in accordance with its Texas Railmoad Commission (Texas RRC) and Louisiano Department of Environmental Quality (LPC) Hydrostatic Test Water Discharge Permis, which requires testing for oil and grease and oil; and monotimo of the discharge water.
	- Alternatives		visible sheen.		for visible sheen."
30	Section 3.3.1	3-18	Thus, construction at this site would disturb about 436 acres of wetlands as compared to the 311 acres of wetlands that would be affected by construction at the proposed Terminal Expansion site.	The proposed site will impact 381 acres of wetlands not 311.	Revise statement to: "Thus, construction at this site would disturb about 436 acres of wetlands as compared to the 381 acres of wetlands that would be affected by construction at the proposed Terminal Expansion site."
31	Section 3.5.2	3-24	Each train would have two steam turbine generators to provide the necessary power requirements for the refrigeration compressors.	Each train would only have one steam turbine.	Revise statement to: "Each train would have one steam turbine generator to provide the necessary power requirements for the refrigeration compressors."
32	Section 3.5.2	3-24	All of the turbines would be equipped with selective catalytic reduction and oxidation catalysts to reduce NOx and monoxide emissions, respectively.	Suggested clarification that the turbines/HRSG would be equipped.	Revise statement to: "All of the turbines/HRSGs would be equipped with selective catalytic reduction and oxidation catalysts to reduce NOx and monoxide emissions, respectively."
				9	and monoxide emissions, respectively."

AP1-28	The text in section 2.6.1.9 has been clarified.
AP1-29	The text in section 2.6.4.1 has been clarified.
AP1-30	The text and tables throughout the EIS have been updated with the new acreage information provided by Golden Pass.
AP1-31	The text in section 3.5.2 has been corrected.
AP1-32	The text in section 3.5.2 has been clarified.

	A	Pass Product Pass Pipelin	-		FERC Dool	Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL" ket Nos. CP14-517-000 and CP14-518-000 Comments to Draft Els					
	Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)										
	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution					
AP1-33	33	Section 3.7.1.2	3-25	The proposed location for the MP 33 Compressor Station is on land owned by Golden Pass in the immediate vicinity of the north side of the existing Texoma Interconnection facilities and its mainline compressor station.	Golden Pass does not currently own the land at the location of the MP33 Compressor Station.	Revise statement to: "The proposed location for the MP-3 Compressor Station is in the immediate vicinity of the north side of the existing Texoms Interconnection facilities and Rs mainline compressor station."					
AP1-34	34	Section 3.7.1.3	3-26	The proposed location of the MP 66 Compressor Station is on land owned by Golden Pass, immediately northwest of the existing TETCO Interconnection facilities.	Golden Pass does not own the land at the location of the MP66 Compressor Station.	Revise statement to: "The proposed location of the MP 66 Compressor Station is immediately northwest of the existing TETCO Interconnection facilities."					
	Section 4 - Er	vironmental Imp	act Analysis								
P1-35	35	Section 4.1.2.1	4-4	Six of these pipelines run through or across the Terminal Expansion site. These lines would not be disturbed during construction or operation of the Project.	Seven of the nine pipelines within 0.25 mile of the site run through the site flyou include the Golden Pass pipeline. MSPL will be re-routing two of these pipelines as a result of the GPX Terminal expansion: • MGPL – Louisiana Pipeline #1 MGPL – Louisiana Pipeline #2	Revise statement to: "Seven of these pipelines run through or across the Terminal Expansion site, including the GP Pipeline. Two of the foreign lines would temporarily be placed out of sevice and relocated on-site. The emaining four foreign lines would not be disturbed."					
					Of note, the RRC's line file does not accurately reflect the NGPL #1 route.						
AP1-36	36	Section 4.1.6.3 / Wind Design	4-10/11	LNG fasilities, as defined in 49 CFR 193, would be designed for SR 193, would be designed for SR 194, which is only selected in the SR 195 mph, which is not winder to a 183-mph, 3-second gust wind speed. Other facilities would be designed for a 145-mph, 3-second gust wind speed in accordance with ASCE 7-05.	The way the statement is written it appears to be stating that there are two different design criteria regarding wind speed, one for LNG sacilities and another for all other facilities. However, all facilities will be designed to the same wind speed.	Revise statement to: "All facilities will be designed to the same wind speed. The design designed to the same wind speed. The design designed to the same wind speed. The design set 150 mph statement ultimate wind velocity. This is equivalent to a 183 mph 3 second gust ultimate wind velocity. For purpose of ASCE 7-05, the service level design wind speed is cobained by dividing the 183 mph by the square root of the load factor; 145 mph = 183 mph / vil.5."					

AP1-33	The text in section 3.7.1.2 has been clarified.
AP1-34	The text in section 3.7.1.3 has been clarified.
AP1-35	The text in section 4.1.2.1 has been updated with this new information.
AP1-36	The text in section 4.1.6.3 has been clarified.

		Pass Produc Pass Pipelin			FERC Doc	Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") ket Nos. CP14-517-000 and CP14-518-000 Comments to Draft EIS		
			Comme	Golden Pass Product		1 25. 2016)		
С	omment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution		
37		Section 4.2.1.1	4-12	According to Golden Pass, about 22,000 yd3 of dredged material would be reused to construct storm berms.	New dredged material may be used to construct bems within the DMPA as part of the disposal activity. However, no dredged material would be used for the storm surge barrier berm at the terminal site.	Suggest the following statement is removed to avoid confusion: "According to Golden Pase, about 22,000 yds of threefing to make it would be reused to construct storm berms."	AP1-37	The text in section 4.2.1.1 has been clarified.
38		Section 4.2.6.2	4-17	Once the pipeline is installed along the Calcasieu Loop, the right-of-way and the ATWS would be restored according to the restoration and reseeding measures contained in the FERC's.	Incomplete sentence, missing something after "FERC's".	Revise statement to: "Once the pipeline is installed along the Calcasteu Loop, the right-of- way and the ATVS would be restored according to the restoration and reseeding measures contained in the FERC's Plan and Procedures."	AP1-38	The text in section 4.2.6.2 has been clarified.
39		Section 4.3.1.2 / Terminal Expansion	4-25	Both the Supply Dock and access channel would be diredged to 20 feet below MSL (plus or minus 2 feet of depth). The temporary float channels would be diredged to 7 feet below MSL (plus or minus 2 feet of depth).	As written in this location, the access to the MCP could be mistaken for the access channel that will be dredged parallel to the shoreline immediately west of the Supply Dock to position a barge that would be used as a floating dock at the shoreline.	Revise statement to: "The Supply Cock and access would be dredged to 20 feet below MSL (plus or minus 2 feet of depth), the access channel to 14 feet below MSL (plus or minus 2 feet of depth), and the temporary float channels to 7 feet below MSL (plus or minus 2 feet of depth), "	At 1-30	
40		Section 4.3.2.1/ Terminal Expansion	4-25	Hydrostatic testing of the new piping and LNG tanks at the Terminal Expansion would be conducted to ensure the integrity of these components before placing the facility into service. Golden Pass would hydrostatically	New LNG tanks are not being built. As written, it sounds like there would be new LNG tanks which require hydrostatic testing. New tanks (utilities and by-product storage) will be constructed and hydrotested in accordance with appropriate regulation.	Revise statement to: "Hydrostatic besting of new piping and storage lanks at the Forminal Expension would be conducted for ensure the integrity of these components before placing the facility into service." Revise statement to: "Golden Pass would hydrostatically test plains and storage lanks to	AP1-39	The text in section 4.3.1.2 has been clarified.
		Section 4.3.2.2 / Hydrostatic Testing		test the piping and LNG storage tanks to verify the integrity of these facilities prior to placing them in service.		verify the litegrity of these facilities prior to placing them in service."		
					11		AP1-40	The text in sections 4.3.2.1 and 4.3.2.2 has been



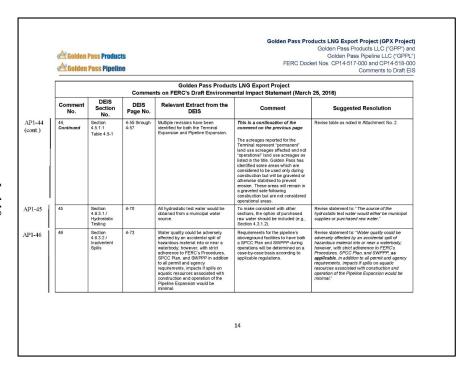
AP1-41 Table 4.3-4 has been updated based on this new information.

AP1-42 The text and tables throughout the EIS have been updated with the new acreage information provided by Golden Pass.

	Products LLC ("GPP") ar ass Pipeline LLC ("GPPL
ass Pipeline FERC Docket Nos. CP14-5	7-000 and CP14-518-00 Comments to Draft El
Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)	
DEIS DEIS Section No. Page No. DEIS Relevant Extract from the Comment Sugger	ited Resolution
4.5.1.1 ground surface using mechanical or manual methods, or a combination of manual methods.	o: "Vegetation would be und surface using mechanical , or a combination of the two. otentially be burned."
4.5.1.1 4.57 Sentified for buth the Terminal Expansion and Pipeline Expansion. Signature of the Company of th	CO I AMERICA NO. 2.
4.5.1.1 4.5.7 Identified for both the Terminal Expansion and Pipeline Expansion on depict temporary versus permanent improvement of the property of the prop	ed in Attachment No.

AP1-43 The text in section 4.5.1.1 has been clarified.

AP1-44 The text and tables throughout the EIS have been updated with the new acreage information provided by Golden Pass.



AP1-45 The text in section 4.6.3.1 has been clarified.

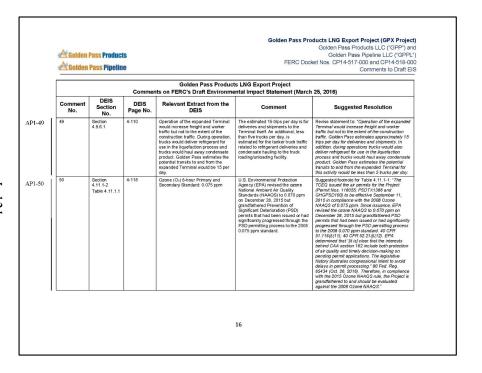
AP1-46 The text in section 4.6.3.2 has been clarified.

AP1 – Golden Pass Products (cont'd)

A	Pass Produc Pass Pipelin				oducts LNG Export Project (GPX Project Golden Pass Products LLC ("GPP") an Golden Pass Pipeline LLC ("GPPL ket Nos. CP14-517-000 and CP14-518-00 Comments to Draft El
		Comme	Golden Pass Produc	ts LNG Export Project	25, 2016)
Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution
47	Section 4.8.1 Table 4.8.1-1	4-89 to 4- 91	Multiple revisions have been identified for bein the Termhal Expansion and Pipeline Expansion.	Land use affects will be avoided by the use of the HDD method. As prodied in the May 4, 2016 Response to DELISM Migalion Measure No. 18, Golden Pass has revised the locificiant of the MP 80 interested to the Migalion Measure No. 18, Golden Pass has revised the locifician and IETCO interested to the Migalion of the Migalion and Migalion of the Miga	Revise table as noted in Attachment No. 2.
48	Section 4.8.2.1	4-96	Of the 918.7 acres required for construction of the Terminal Expansion, 724.7 acres are under the ownership of Golden Pass and are within the usisting Golden Pass import Terminal property boundaries. The remaining 1946 acres of land the remaining 1946 acres of land acres of the property of the propert	Golden Pass signed an option for 281 acre property extension as provided to the FERC Docket on January 14, 2016 (Accession No. 20160114-517). See Attachment No. 5, referenced in Comment Nos. 12 and 13 above.	Bevine skalement Its: "Of the 918" Jerna- rogister for coatrollon of the Termoniaer for coatrollon of the Termoniaer Spanisho, 724.7 acres are under the ownership of Golden Pass and are within the existing Golden Pass insport Terminal property boundaries. Oxfort Pass has secured an boundaries. Oxfort Pass has secured an additional 87 acres of privately owned land."

AP1-47 The text and tables throughout the EIS have been updated with the new acreage information provided by Golden Pass.

AP1-48 The text in section 4.8.2.1 has been updated with this new information.



AP1-49 The text in section 4.9.6.1 has been clarified.

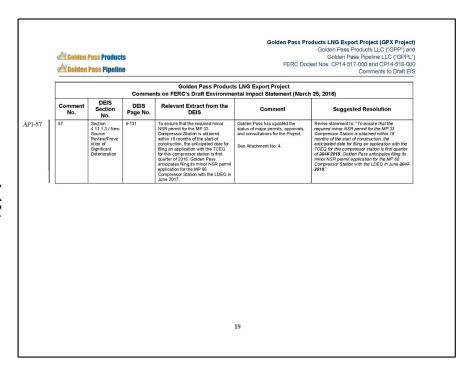
AP1-50 Table 4.11.1.1 has been updated.

	A	Pass Product	_		FERC Doc	Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") ket Nos. CP14-517-000 and CP14-518-000 Comments to Draft EIS		
			Commer	Golden Pass Product				
	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution		
1-51	51	Section 4.11.1.2 / Air Quality Monitoring and Existing Air Quality	4-120	All monitored data were below the NAHAOS except for the h hour Ox value wereged during the 5-year period from 2011 through 2013. This everage 8-hour O3 result of 76 ppd (1 pps slight) solor the O3 VAAOS) was calculated from the Sabine Pass monitoring station data.	These two sertlences should be dicited and normithe. EPA requires that the additional digits to the right of the third desirant place are a functional place are a functional place and the sertlence of the place of	Suppred exvision." All monitored data were believe the VARAS Based upon the 2011 - 2013 Sabine Pass monitoring data, the three-year design value areas get from 2011 - 2013 is 0.0766 ppm, which results in 0.075 ppm when the variety of yEAP regulations and is an compliance with the 2008 corone NAROS. For any other control of the property of the value of the 2008 corone NAROS. For any other passes were the value decided and the EPA design value for 2012 - 2015 is now 0.088 ppm."	AP1-51	The text in section 4.11.1.2 has been updated.
					in compliance with the 2008 ozone NAAQS. For the most recent three year average, the ozone levels have declined and the BPA design value for 2012 - 2015 is now 0.088 ppm.		AP1-52	The information in table 4.11.1-2 has been clarifi
1-52	52	Section 4.11.1.2 Table 4.11.1-2	4-121	Column 3 (Highest Monitored Value), Row 7 (O _a)	On Table 4.11.1-2 the ozone value column should be corrected from 7.6 or 7.5 6 pp. EPA requires that the additional digits to the night of the intrind decimal place are truncated, and not rounded. 7.3 FR 16436 (March 27, 2008). Appendix U to Part 50 – Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone 2.1.	Column 3 (Highest Monitored Value), Row 7 (O ₂) should be 75.6 instead of 76		
1-53	53	Section 4.11.1.3 / Federal Air Quality Requirements	4-124	it has a PTE greater than or equal to 100 tpy (if classified in one of the 28 named source categories listed in Section 189 of the CAA) or 250 tpy for any other type of source.	This bullet point should be deleted because it is not correct due to the June 23, 2014, U.S. Supreme Court Utility Air Regulatory Group v. EPA (No. 12-1146) decision.	Delete: "• it has a PTE greater than or equal to 100-tpy (if classified in one of the 28 named course categories listed in Section 169 of the CAA) or 250 tpy for any other type of course."	AP1-53	The text in section 4.11.1.3 has been updated.
,					17			

A	n Pass Product n Pass Pipelin			FERC Doc	Golden Pass Products LLC ("GPP") a Golden Pass Pipeline LLC ("GPP ket Nos. CP14-517-000 and CP14-518-0 Comments to Draft E
		Comme	Golden Pass Product	ts LNG Export Project	25. 2016)
Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution
54	Section 11.1.3 Table 4.11.1-5	4-125/126	Terminal Expansion: • Column 1 (Emission Unit), Row 8 (Storage tanks) • Row 9 (Condensate storage tank loading)	Only 9 tanks vent directly to the atmosphere. The 10 th tank (condensate storage tank) vents to the Thermal Oxidizer and the emissions are accounted for in ROW 4 (Thermal oxidizers).	Terminal Expansion: Column 1 (Emission Unit), Row 8 (Storage tanks) — Revise (10) to "(9)" Remove Row 9 (Condensate storage tank loading) in its entirety
			MP 1 Compressor Station: • Column 6 (VOC), Row 15 (Fugitive emissions) • Column 6 (VOC), Row 18 (TOTAL)	Suggested correction to "<0.1" instead of 1.6 tpy	MP1 Compressor Station: • Column 6 (VOC), Row 15 (Fugitive emissions – Revise 1.6 to **0.1* • Column 6 (VOC), Row 18 (TOTAL) – Revise 258.4 to *256.7*
55	Section 4.11.1.3	4-126/127	As shown in table 4.11.1-4, the Terminal Expansion and MP 1 Compressor Station would be a PSD major source, as the projected emissions for NOx, CO, and CO2-eq are above the major stationary thresholds.	Incorrect table reference is listed. The reference should be table 4.11.1-5. Statement should also reference VOC as being above the major stationary thresholds.	Revise statement to: "As shown in table 4.11.1-5, the Terminal Expansion and MP 1 Compressor Station would be a PSD major source, as the projected emissions for NOx, VOC. CO, and CO2-eq are above the major stationary thresholds."
56	Section 4.11.1.3 / General Conformity	4-129	See table 4.11.46 for demonstration of applicability of German Conformity rules for the BPA maintenance and HGS marginal and Severe nonattainment areas for O ₂ .	Beaumont-Port Arthur Area (BPA) is no longer a maintenance area.	Revise The General Conformity section to Incide the following: "Area designated as "attenment are not subject to General Conformity," 40 CFR section 39.13.55 Section 39.13 Section 39

A	AP1-54	Table 4.11.1-5 has been revised accordingly.
P	AP1-55	The cross-reference to the table has been corrected.
A	AP1-56	The text in section 4.11.1.1 has been updated and clarified.

AP1 - Golden Pass Products (cont'd)



AP1-57 The text in section 4.11.1.3 has been updated with the new information.

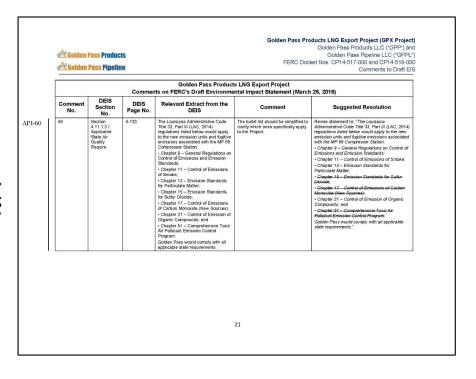
AP1 – Golden Pass Products (cont'd)

	A	Pass Product Pass Pipelin				ducts LNG Export Project (GPX Project) Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") et Nos. CP14-517-000 and CP14-518-000 Comments to Draft EIS
			Comme	Golden Pass Product	s LNG Export Project	25, 2016)
	Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution
8 1	58	Section 11.1.3 Table 4.11.1-7	4-132	JAP 33 Compressor Station: Column 4 (SQ)2, Rev 2 (MG-fred compressors) Column 5 (VOC), Rev 8 (MG-fred column 5 (VOC), Rev 8 (TOTAL MP 33) MP 86 Compressor Station: Column 3 (CO), ROW 10 (Natural gas-fred compressors) Column 4 (SQ)2, Rev 8 (TOTAL MP 33) Column 3 (CO), ROW 10 (Natural gas-fred compressors) Column 3 (CO), Rev 12 (MS Essential Generators) Column 2 (NG), Rev 12 (MS Essential Generators) Column 2 (NG), Rev 12 (MS Essential Generators) Column 3 (CO), Rev 17 (TOTAL MP 68)	Minor revisions to the accuracy of the numbers provided in the table. The MP 68 Compressor Station has 1 NC Essential Generator not 7, as listed.	JAP 33 Compressor Station. Column 4 (GO)2, Mov 2 (HG-fred compressors) – Revise 0.20, 11 to '2.1' Column 8 (HOC), Mov 2 (HG-fred compressors) – Revise 0.20, 11 to '2.1' Column 8 (HOC), Mov 2 (Trutk Indexing operations) – Revise 0.20 to '40.1" – Column 4 (GO)2, Revi 8 (107141. —MP 33) – Revise 0.20.1 to '2.1' Move 10 (Hall Japan 10 (Holland Japan 10 (H
ì	59	Section 4.11.1.3 / Title V Operating Permit	4-133	Golden Pass anticipates filing its Title V operating permit application for the MP 66 Compressor Station with the LDEQ in June 2017.	Golden Pass has updated the status of major permits, approvals, and consultations for the Project. See Attachment No. 4.	Revise statement to: "Golden Pass anticipates filing its Title V operating permit application for the MP 66 Compressor Station with the LDEQ in June 2017 2018."

AP1-58 Table 4.11.1-7 has been updated.

AP1-59 The text in section 4.11.1.3 has been updated with the new information.

AP1 – Golden Pass Products (cont'd)



AP1-60 The text in section 4.11.1.3 has been revised appropriately.

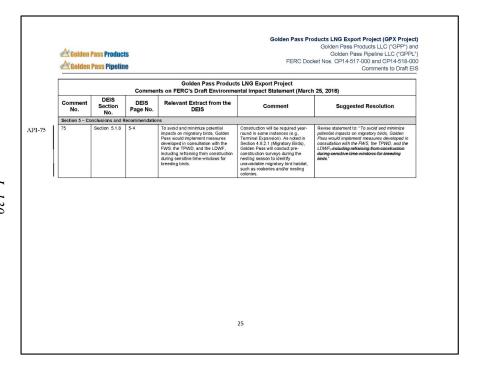
Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016) Comments on FERC's Draft Environmental Impact Statement (March 25, 2016) DEIS No. No. No. No. No. No. On FERC's Draft Environmental Impact Statement (March 25, 2016) Earlier Statement (March 25, 2016) Suggested Resolution Comment Suggested Resolution Suggested Resolution Suggested Resolution Comment Suggested Resolution Comment Suggested Resolution Suggested Resolution Suggested Resolution Suggested Resolution Suggested Resolution Comment Suggested Resolution Suggested Resolution Suggested Resolution Comment Suggested Resolution Suggested Resolution Suggested Resolution Suggested Resolution Comment Suggested Resolution Suggested Resolution Suggested Resolution Advised Suggested Resolution Advised Suggested Resolution Sugge	
Section Sect	
4.11.1.4 Golden Pass may use open burning pepleine Expansion — Brown of the September 1 o	
Dullocot summing – requirements 5, 4 Matterly, Succinerating 1, 5 Matterly, Succinerating 1, 6 Matterly	on of the ruse cleared en nece with nmental nece with structurate of Air tribulate en nece neces and 7), co
92 Section 4.11.5.7 BACT for Flares BACT for Flares BACT for Flares BACT for Elans and swhor practice requirements under 40 CFR 60.18 and good combustion practices every element of the flares of	
85 Section 4.11.6 Six deset essential generators at the Terminal Expansion and one native agreement or six generators at the Terminal Expansion and one native agreement or six generators at the Terminal. Back Tor Dieset and Dieset and Compressor station would be set satisfied by generators at the Terminal. Compressor set station would be set stated by generators at the Terminal. Compressor set station would be set stated as distinct so the Terminal against several to the Terminal against several station would be set stated as distinct several s	nd one IP 1

AP1-61	The text in section 4.11.1.4 and associated information in tables 4.11.1-8 and 4.11.1-12 have been corrected.
AP1-62	The text in section 4.11.1.5 has been updated.
AP1-63	The text in section 4.11.1.5 has been clarified.

≜ Golden	Pass Product Pass Pipelin			FERC Doc	Golden Pass Pipeline LLC (*GPP ket Nos. CP14-517-000 and CP14-518-0 Comments to Draft E
		Comme	Golden Pass Product	ts LNG Export Project	1 25, 2016)
Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution
64	Section 4.11.1.5 / Mitigation Measures	4-148	Golden Pass anticipates filing its minor NSR permit and Title V operating permit application for the MP 66 Compressor Station with the LDEQ in June 2017.	Golden Pass has updated the status of major permits, approvals, and consultations for the Project. See Attachment No. 4.	Revise statement to: "Golden Pass anticipates filing its minor NSR permit and Title V operating permit application for the MP 66 Compressor Station with the LDEQ in June 2047 2018."
65	Section 4.12.1.5	4-193	Potential spills from the existing 36- inch-diameter ship loading header would be directed to the existing Tank Area Containment Sump.	Incorrect diameter listed, the existing ship loading system is comprised of two (qty) 30-inch lines.	Revise statement to: "Potential spills from one of the existing 30-inch-diameter ship loading header would be directed to the existing Tank Area Containment Sump."
66	Section 4.12.1.5	4-194	The Truck Leading LIG Sgill Containment Samp would contain splits from LIND truck loading splits from LIND truck loading personal so, Galden Plass designed operations, Galden Plass designed of the NOO-gallen truck, totaling 8,800 gallons. The dimensions of the Truck Loading LIND Sgill Containment Samp sould be 10 feet under the Fough Intersection, which provides a usable samp capacity of 11,221 gallons. This sump would be adorquity lead to contain a split and support of 11,221 gallons. This sump would be adorquity lead to contain a split contain a spli	In response to FERC's Condition 26 in the DEIS, Golden Pass filled to the FERC Docket on April 19, 2016 that "The Trust Leading LNG Spill and "The Trust Leading LNG Spill and the Pass filled to the FERC Docket on April 19, 2016 that "The Trust Leading LNG Spill and LNG	Bevise statement to 'The Track Loading LNS Spill Containment Sump would contain spills from LNR stuck loading poerations. The Truck Loading LNR Spill Containment has been to the spill Containment and the spill containment spill containment Sump would be 10 feet by 10 feet with a depth of 15 set under the forth of the spill containment Sump would be 10 feet by 10 feet with a depth of 15 set under the forth a depth of 15 set under the forth a depth of 15 set under the forth a depth of 11,221 gallons:
67	Section 4.12.1-5 Table 4.12.1-3	4-195	Column 1 (Larges Sizing Spill Source), Row (36-inch Ship Loading Header)	Incorrect diameter listed, the loading line has a diameter of 30- inches.	Revise to: "30-inch Ship Loading Header"
68	Section 4.12.1.7 Table 4.12.1-4	4-198	Column 6 (Total Vapor Flow Rate), Row 5 (LNG-52 Vertical Release)	Value of 1,886,541 is incorrect. It should be 1,886,620.	Revise to: 1,886,620
				23	

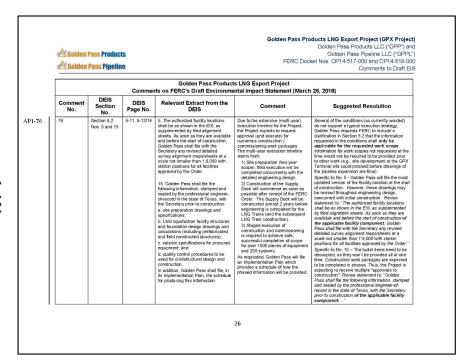
AP1-64	The text in section 4.11.1.3 has been updated with the new information.
AP1-65	The text in section 4.12.1.5 has been updated.
AP1-66	The text in section 4.12.1.5 has been updated.
AP1-67	Table 4.12.1-3 in section 4.12.1.5 has been updated.
AP1-68	Table 4.12.1-4 in section 4.12.1.7 has been updated.

Section No. Section No		A	Pass Product Pass Pipelin	-			ducts LNG Export Project (GPX Project) Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") ket Nos. CP14-517-000 and CP14-518-000 Comments to Draft EIS	AP1-69	The text in section 4.12.1.7 has been upda
Comment No. No. Page				Comme			25, 2016)		
4.12.1.7 Flammable Vapor on Design Soll Analyses for LNS 1 70 Section 4.12.1.5 Section 5.12.1.7 Section 4.12.1.5 Section 5.12.1.7 Section 6.12.1.7 Se			Section	DEIS	Relevant Extract from the			AP1-70	Table 4.12.1-5 in section 4.12.1.7 has been
A12.17 A2.06 A12.15 A2.06 Column (Total Vajor Flow Rate), Row 4 (MR-136) Value of 90.844 is incorrect. It should be 748,700. Table 4.12.15 A2.06 Column (Total Vajor Flow Rate), Row 4 (MR-136) Value of 90.844 is incorrect. It should be 748,700. A12.17 Fabrica 4.12.17 Fabrica	69	69	4.12.1.7 / Flammable Vapor Dispersion Design Spill Analyses for	4-203	approximately 1.886,541 pounds per		rundown line at approximately 1,886,539 pounds	AP1-71	Table 4.12.1-5 in section 4.12.1.7 has been
4 412.17 Table 4.12.5 Table 4.12.7 Table 4.12.5 Table 4.12.7 Table 4.12.5 Table 4.12.7 Table 4.1	70	70	4.12.1.7	4-206	Column 5 (Liquid Reinout), Row 4 (MR-136)		Revise to: 17		
72 Section 4.12.1.7 173 Section 4.12.1.8 174 Section 4.12.1.7 174 Section 4.12.1.7 175 Section 4.12.1.7 176 Section 4.12.1.8 177 Section 4.12.1.8 178 Section 4.12.1.8 179 Section 4.12.1.8 170 Section 4.12.1.8 1	71	71	4.12.1.7	4-206	Column 6 (Total Vapor Flow Rate), Row 4 (MR-136)	Value of 806,444 is incorrect. It should be 748,700.	Revise to: 748,700		
AEGL-3	-72	72	Section 4.12.1.7 / Flammable Vapor Dispersion Design Spill Analyses for Other Process	4-206	136, and MR-148 were not modeled for a 10 minute release duration. FERC staff re-modeled the scenarios for a 10 minute release duration, and the results indicated a 1 percent or less difference in dispersion distance, which would still remain within the	originally modeled for 10 minutes. Golden Pass received a data request from PHMSA requesting that the project demonstrate how long the releases would take and those were the times left in the input	scenarios MR-127, MR-136, and MR-148 for a 10 minute release duration, and the results indicated a 1 percent or less difference in dispersion distance, which would still remain	AP1-72	The text in section 4.12.1.7 has been updat
14:21.8 be 464. Table 4.12.17	1-73	73	4.12.1.8	4-211	Column titles: AEGL-1, AEGL-2, AEGL-3	All distances are to the ½ AEGL	to include the bolded text: "Maximum Distance to One Half the Acute Exposure Guideline Levels (in ppm) for 10 minute Exposures." Or alternatively a footnote is added that indicates all	AP1-73	Table 4.12.1-7 in section 4.12.1.8 has been
API-74 Table 4.12.1-7 in section 4.12.1.8 has	-74	74	4.12.1.8	4-211	Column 2 (AEGL-1), Row 2 (AM-33)	Value of 414 is incorrect. It should be 404.	Revise to: 404		
24	I							AP1-74	Table 4.12.1-7 in section 4.12.1.8 has been



AP1-75 The text in section 5.1.6 has been clarified.

AP1 - Golden Pass Products (cont'd)



AP1-76 The text in section 5.2 has been clarified.

Comment Comments on PERC's Draft Environmental Impact Statement (March 25, 2016)		Pass Produc			FERC Doc	Golden Pass Products LLC ("GPP") a Golden Pass Pipeline LLC ("GPP ket Nos. CP14-517-000 and CP14-518-0
Comment DEIS Section No.	Guidei	i rass ripeii	ile			Comments to Draft E
Comment No. DEIS Page No. DEIS Page No. Page No			Comme			25. 2016)
Authorization from the Director of OEP to commence construction was activities expected to commence and authorization of any protect flame of DEP to commence and authorization of any protect flame of DEP to commence and authorization of any protect flame of DEP to commence and authorization of any protect flame of DEP to commence and authorization of any protect flame and any protection and any protection of any protect flame and any protection and any protection of		Section			Comment	Suggested Resolution
78	π		5-13	authorization from the Director of OEP to commence construction of any project facilities, Golden Pass shall file with the Secretary documentation that it has received all applicable authorizations required under federal law (or evidence of	construction work activities expected to commence almost two years before engineering is fully complete, Golden Pass has elected to wait on submitting some permit applications until a later date. The Project will submit the final application during the engineering design stage to allow for the detailed design information to be	commence construction of any project facilities, Golden Pass shall file with the Secretary documentation that it has received all applicable authorizations for construction of the applicable work scope required under federal
No. 14 Pass shall file with the Secretary the resust of peciachnical studies of the MP 33 and MP 68 Compressor station and the before construction of the pipeline compressor station is construction. Golden Pass requests the MP 33 and MP 68 Compressor construction. The state that it is applicable to only the pipeline compressor stations are constructed to each proposed to "any construction." Possible 15 2 Section 5.2 Section 6.2 Section 6.						
No. 40 Golden Pass shall file additional layers of protection in the front of passive mitigation to minigate the passive mitigation to mitigate the passive mitigate the passive mitigation to mitigate the passive mitigate mitigate mitigate mitigate mitigate miti	78		5-13	Pass shall file with the Secretary the results of geotechnical studies for the MP 33 and MP 66 Compressor	Terminal are expected to start before construction of the pipeline compressor stations. For clarification, Golden Pass requests that this Condition be re-written to state that it is applicable to only the pipeline compressor stations as	*Prior to pipeline compressor station construction, Golden Pass shall file with the Secretary the results of geotechnical studies for
compiler. Golder-Plass plans to start set preparation as soon as possible (concurrent with the engineering phase).	79		5-17	Golden Pass shall file additional layers of protection in the form of passive mitigation to mitigate the potential for an initiating event to	a BLEVE incident will be further developed during the final engineering phases and is not connected to the start of site preparation. With site preparation expected to take two years to complete, Golden Pass plans to start site preparation as soon as possible (concurrent with the	form of passive mitigation to mitigate the potential for an initiating event to develop into a
					27	

AP1-77	The text of section 5.2 has been clarified.
AP1-78	The text in section 5.2 has been clarified.
AP1-79	It would be appropriate to complete the analysis of passive mitigation before foundation locations are finalized, so that increased distance between plant features can be considered as an

AP1 – Golden Pass Products (cont'd)

A Golden Pass Products A Golden Pass Pipeline				Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") FERC Docket Nos. CP14-517-000 and CP14-518-000		
dolucii	r ass r ipeni	10			Comments to Draft EIS	
Golden Pass Products LNG Export Project Comments on FERC's Draft Environmental Impact Statement (March 25, 2016)						
Comment No.	DEIS Section No.	DEIS Page No.	Relevant Extract from the DEIS	Comment	Suggested Resolution	
80	Section 5.2 No. 81	5-20	Prior to commissioning, Golden Pass shall tag all equipment, instrumentation, and valves in the field, including drain valves, vent valves, main valves, and car-sealed or locked valves.	Golden Pass's standard work process allows tagging of valves to be a mechanical completion punch list activity that must be completed within 60 days of in-service. As such, the Project requests that valves be separated from this condition.	Revise to be two conditions: 181. Prior to commissioning, Golden Pass shall tag all equipment and instrumentation—and values in the field-including drain values—went values—and cas-sealed or locked values. New. *Prior to the in-service date. Colden Pass shall tag all values in the field, including	
					drain valves, vent valves, main valves, and car- sealed or locked valves."	
il	Section 5.2 No. 85	5-21	Prior to Introduction of hazardous fluids. Golden Fess mill completed all pertinent lesis (Factory Acceptance Tests, Stee Acceptance Tests, Accepta	These tests are included in Codden Pased standard commissioning work process. The Project nodes that equipment / specters will be example - the nitrogen generation and distribution system will be commissioned well in advance of the project requests durification that this statement is applicable to only the ecompressic durification that this statement is applicable to only the ecompressic durification that this statement is applicable to only the ecompressic durification that this statement is applicable to now the scape of equipment for the 1000 process of equipment scope. The Project requests that FERC clarify that the Condition request is applicable to the "requested work scope"	Revise slate ment 10: "Pior to inforduction of hazardous flusion, Golden Pass shall complete ail perisent lesis (Factory Acceptance Tests, Ste Acceptance Tests, Ste Integration Tests) enteres and the State of the	
	ions to Appendix	J related to the r	roposed footorint change of the MP 66 C	ompressor Station and TETCO Intercor	nnect were submitted in the May 4, 2016 Response	
			revisions were identified.	onpressor claudi and regress interest	and all all all all all all all all all al	
				28		

AP1-80 It would be prudent to tag all valves prior to commissioning, so that the safety of activities and operations occurring prior to commencement of service can benefit from efficient valve identification.

AP1-81 This is a standard wording that is used for all projects, including

This is a standard wording that is used for all projects, including amendments that may not have more than one project system. However, for large-scale projects with multiple project work areas, separate approvals have been provided for scopes of work that have met all applicable conditions.

AP1-82 The graphics and associated text in the EIS have been updated with this new information.

AP1 - Golden Pass Products (cont'd)

20160516-5245 FERC PDF (Unofficial) 5/16/2016 12:49:01 PM

Golden Pass Products LNG Export Project (GPX Project)



Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") FERC Docket Nos. CP14-517-000 and CP14-518-000 Comments to Draft EIS

AP1-83

Attachment No. 2

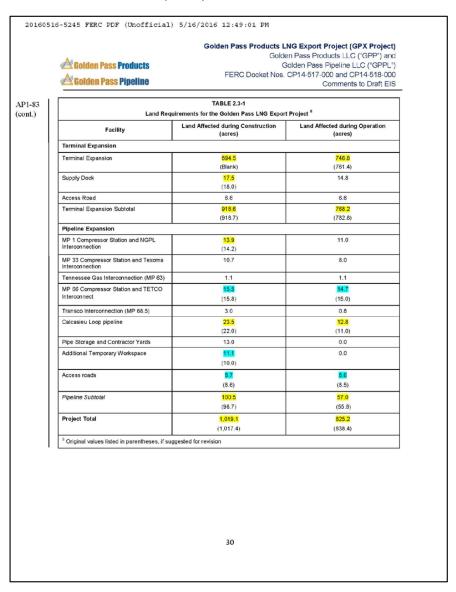
Suggested Revisions to DEIS Tables to Reflect Identified Corrections of the Project Footprint, Including Changes to the MP 66 Compressor Station Site Plan

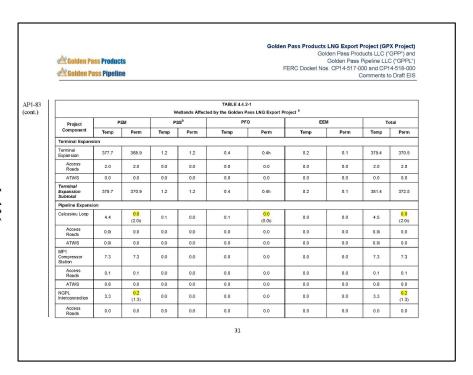
Suggested revisions based on corrections are highlighted in yellow. Suggested revisions which have already been captured based on changes to the MP 66 Compressor Station Site Plan, previously submitted in the May 4, 2016 Response to DEIS Mitigation Measure No. 18, are highlighted in blue. The following tables have been identified for revision based on the Project footprint:

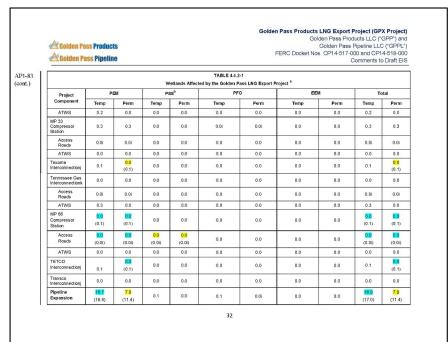
- TABLE 2.3-1 Land Requirements for the Golden Pass LNG Export Project
- TABLE 4.4.2-1 Wetlands Affected by the Golden Pass LNG Export Project
- TABLE 4.5-1 Impacts of the Golden Pass LNG Export Project on Vegetation Cover Types
- TABLE 4.8.1-1 Land Uses Affected by the Golden Pass LNG Export Project

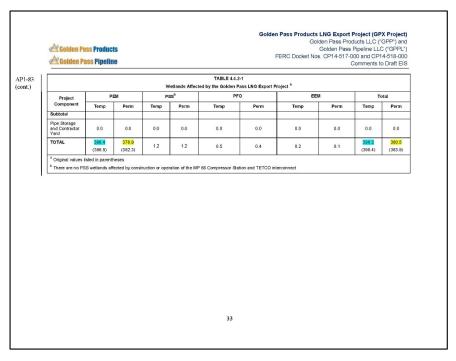
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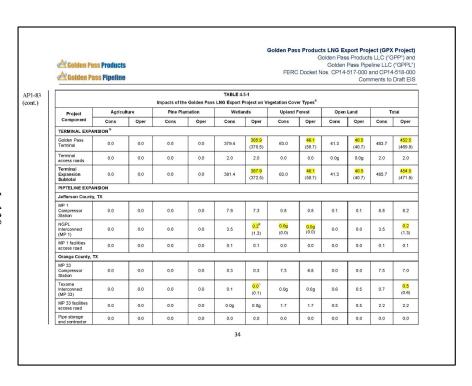
AP1-83 The text and tables throughout the EIS have been updated with the new acreage information provided by Golden Pass.

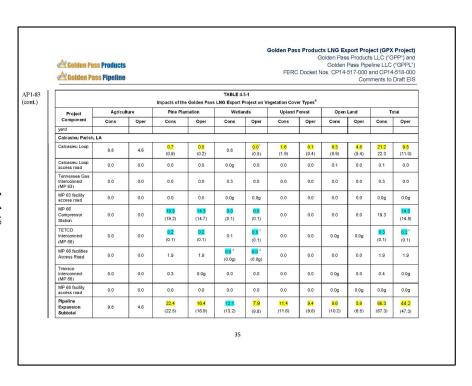


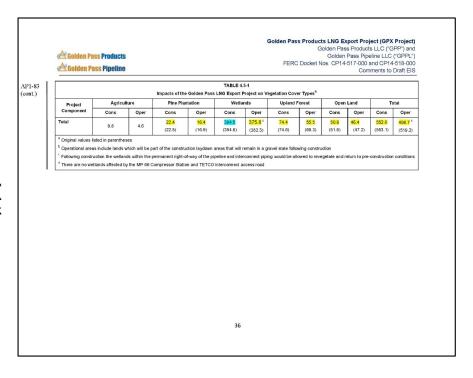


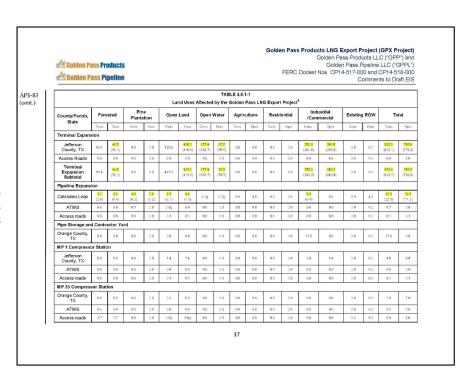


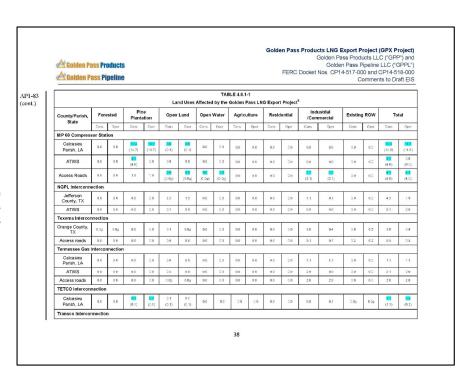


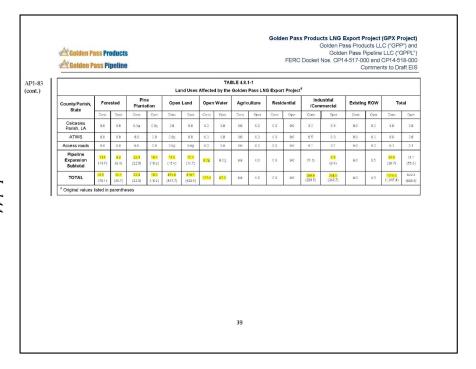








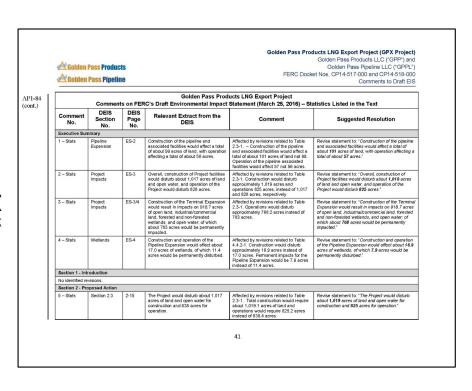


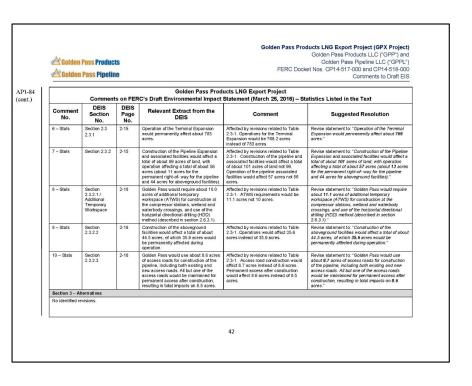


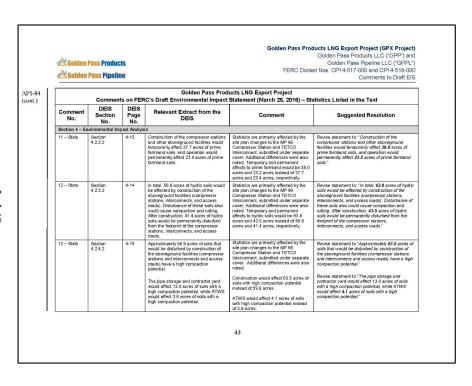
AP1 – Golden Pass Products (cont'd)

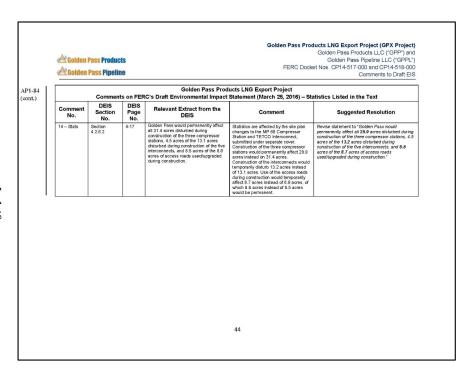
20160516-5245 FERC PDF (Unofficial) 5/16/2016 12:49:01 PM Golden Pass Products LNG Export Project (GPX Project) Golden Pass Products LLC ("GPP") and **Golden Pass Products** Golden Pass Pipeline LLC ("GPPL") FERC Docket Nos. CP14-517-000 and CP14-518-000 **Agolden Pass Pipeline** Comments to Draft EIS Attachment No. 3 AP1-84 Suggested Revisions to Statistics Presented in the DEIS Text Suggested revisions based on: (1) changes to the MP 66 Compressor Station Site Plan, which Golden Pass has previously submitted in the May 4, 2016 Response to DEIS Mitigation Measure No. 18, and (2) additional statistical changes, including revised Project totals, based on the changes identified to the DEIS tables presented in Attachment No. 2.

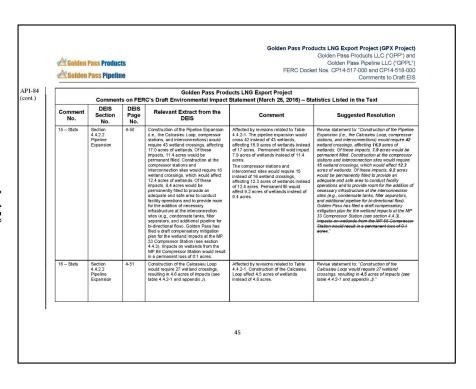
AP1-84 The text and tables throughout the EIS have been updated with the new acreage information provided by Golden Pass.

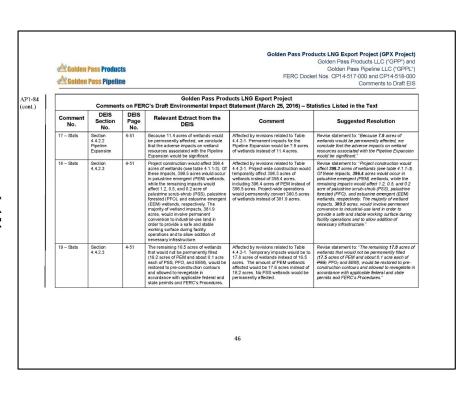


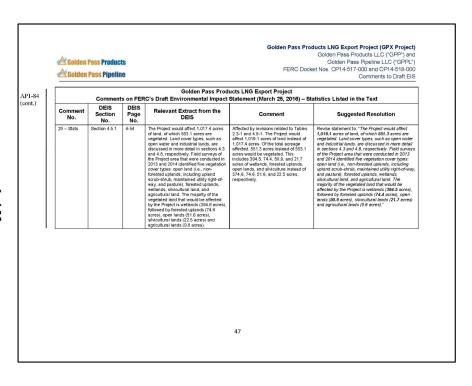


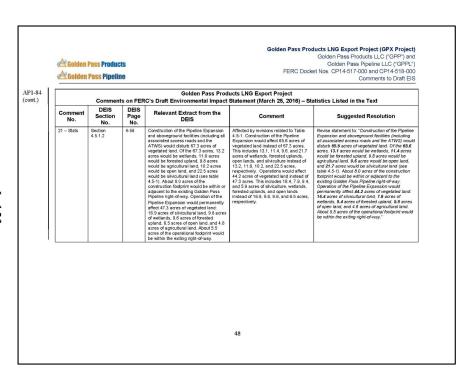


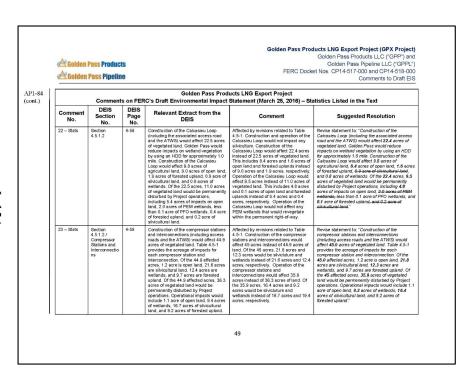


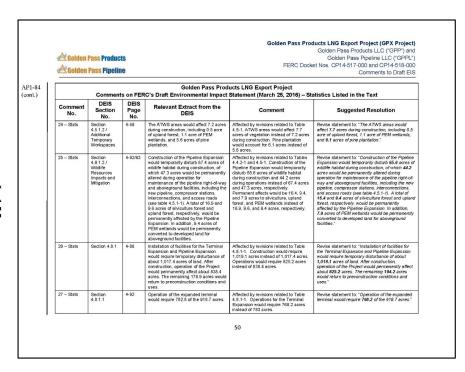


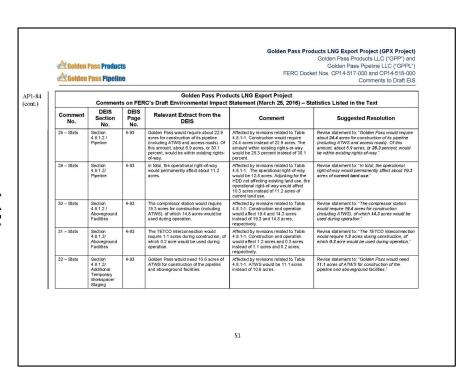


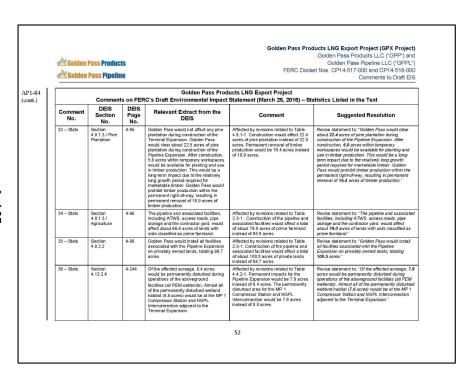


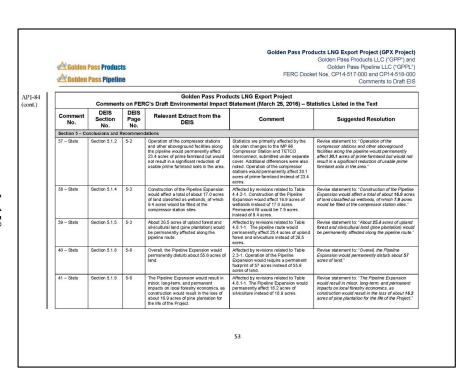




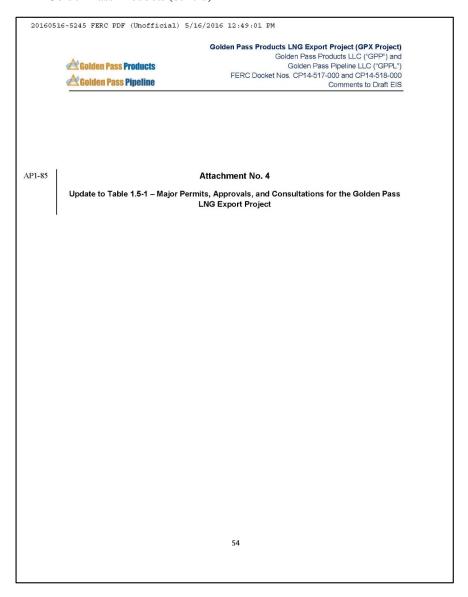




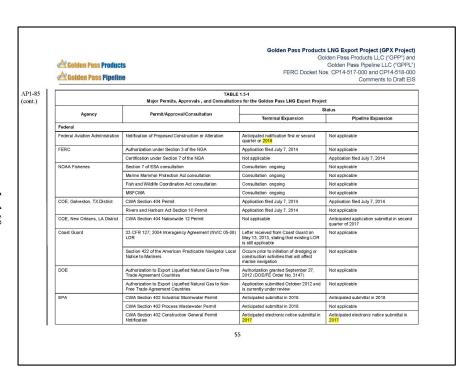


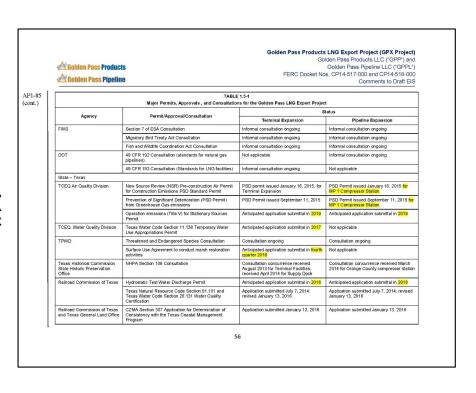


AP1 - Golden Pass Products (cont'd)



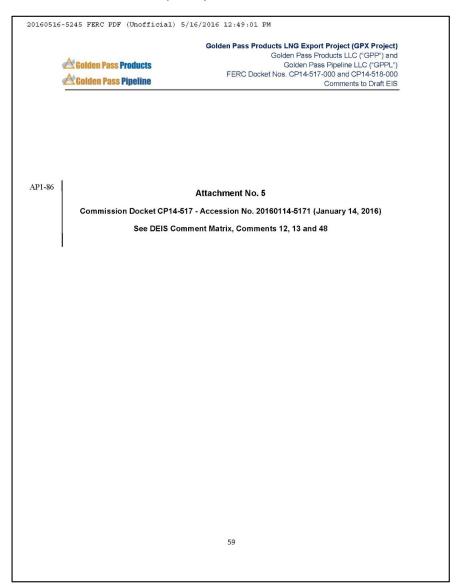
AP1-85 The text and tables throughout the EIS have been updated with the new permit status information provided by Golden Pass.



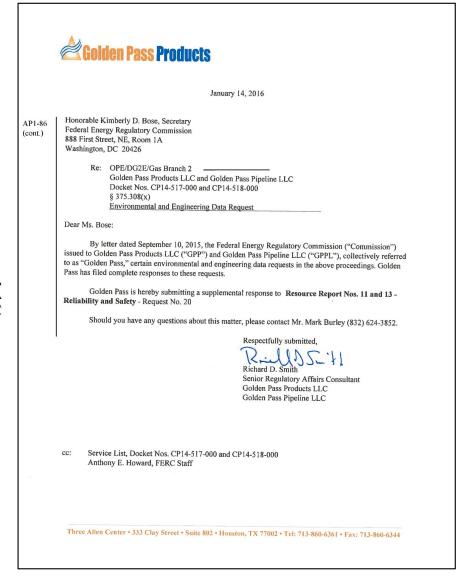


Golden Pass Product Golden Pass Pipelin		FERC Docke	Golden Pass Products LLC ("GPP") an Golden Pass Pipeline LLC ("GPPL" at Nos. CP14-517-000 and CP14-518-00 Comments to Draft El
	TABLE Major Permits, Approvals , and Consultatio		trainet
		ns for the Golden Pass LNG Export Project Status	
Agency	Permit/Approval/Consultation	Terminal Expansion	Pipeline Expansion
State - Louislana		•	
Louisiana Department of Environmental Quality (LDEQ), Air Quality Division	Title V and PSD Permits	Not applicable	Anticipated application submittal in 2018
LDEQ, Water Quality Division	Section 401 Water Quality Certification and Stormwater General Permit; Hydrostatic Test Water Discharge Permit	Not applicable	Anticipated application submittal in 2017
Louisiana Department of Wildlife and Fisheries	ESA consultation	Not applicable	Consultation ongoing
Louisiana Department of Culture, Recreation, and Tourism, Division of Archaeology	NHPA Section 106 consultation	Not applicable	Consultation concurrence received December 2013 for pipeline facilities; received March 2014 for Calcasieu Parish compressor station
Louisiana Office of State Fire Marshall	RS 23:531-545 Boiler Inspection	Not applicable	Inspection anticipated to take place in 2011
Local - Parish			
Calcasieu Parish Police Jury	Building Permit	Not applicable	Anticipated application submittal in 2019
	5	7	

AP1 - Golden Pass Products (cont'd)



AP1-86 See our responses to comments AP1-12, AP1-13, and AP1-48.



AP1 - Golden Pass Products (cont'd)



Golden Pass Products LNG Export Project (GPX Project)

Golden Pass Products LLC ("GPP") and Golden Pass Pipeline LLC ("GPPL") FERC Docket Nos. CP14-517-000

Response to FERC Information Request dated September 10, 2015

AP1-86 (cont.)

Resource Report No. 11 - Reliability and Safety; and No. 13 - LNG Engineering

20. The text associated with the "Proposed Plot Plan and Land Acquisition" drawing, filed on June 3, 2015, may indicate that Golden Pass does not currently have control of the proposed property extension. Explain the current status of the property acquisition and how control of the property would be assured to meet the exclusion zone requirements in 49 CFR 193.

RESPONSE

On December 29, 2015, Golden Pass Products signed an Option Agreement to purchase the 281 acre property extension in order to comply with 49 CFR 193.

Response Provided By: Mark Burley Affiliation: ExxonMobil Development Company

Title: Project Safety, Regulatory and Environment Manager - Golden Pass Products LNG

Export Project

Phone No.: (832) 624-3852 Date: January 4, 2016

1



AP1 - Golden Pass Products (cont'd)

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

Dated at Houston, Texas this 14th day of January, 2016.

Senior Regulatory Affairs Consultant

Golden Pass Products LLC Golden Pass Pipeline LLC

Three Allen Center

333 Clay Street, Suite 802

Houston, Texas 77002

Phone: 713.860.6348

The State of Texas)	
	AFFIDAVIT
	
Safety, Environment & Regulatory and on behalf of Golden Pass Produ or coordinated the preparation of C March 25, 2016 Draft Environment	Burley, being first duly sworn, hereby state that I am the Manager for the Golden Pass Products LNG Export Project, cts LLC and Golden Pass Pipeline LLC, that I have prepared Comments on the Federal Energy Regulatory Commission's natal Impact Statement in Docket Nos. CP14-517-000 and with said response, and that the information contained therein knowledge, information and belief.
	Mark J. Burley
Subscribed and sworn before	e me on the 12 th day of May, 2016
KIMBERLY D. LANTRIP Notary Public, State of Texas Comm. Expires 04-06-2020 Notary ID 8289498	Notary Notary Commission Expires 04-06-2020

AP1 - Golden Pass Products (cont'd)

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

Dated at Houston, Texas this 16th day of May, 2016.

Richard D. Smith

Senior Regulatory Affairs Consultant

Golden Pass Products LLC Golden Pass Pipeline LLC

Three Allen Center

333 Clay Street, Suite 802

Houston, Texas 77002

Phone: 713.860.6348

APPENDIX M Keyword Index

KEYWORD INDEX

24-hour equivalent sound level $(L_{\text{eq}(24)})$	4-151, 4-153, 4-154, 4-156
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