



IN REPLY REFER TO:

United States Department of the Interior

FISH AND WILDLIFE SERVICE

1011 E. Tudor Road
Anchorage, Alaska 99503-6199



AFES/MMM

FEB 10 2014

Mr. Matt Narus, PE
Project Manager
Project Development and Asset Management
Alaska Industrial Development and Export Authority
813 West Northern Lights Boulevard
Anchorage, Alaska 99503

Dear Ms. Narus:

We have received your request dated December 27, 2013, for a Letter of Authorization (LOA) in association with the Alaska Industrial Development and Export Authority (AIDEA) for the incidental take of polar bears during activities associated with the North Slope Liquefied Natural Gas Facility Project on the North Slope of Alaska.

In response, and in accordance with regulations listed at 76 FR 47010, dated August 3, 2011, enclosed is LOA 14-03 that will allow AIDEA to take small numbers of polar bears incidental to activities associated with the AIDEA North Slope Liquefied Natural Gas Facility Project.

The proposed project included the construction and operation of a Liquid Natural Gas (LNG) processing facility, pipelines, access road, pads and associated infrastructure. The project is planned to be completed in the fall of 2015. Please note that LOAs are issued on an annual basis. When the facility is operational LNG will be trucked south to Fairbanks and other communities. A detailed description of the proposed activities is provided in the AIDEA *Interior Energy Project, North Slope Liquefied Natural Gas Facility Plan of Development (December 2013)*.

All provisions contained within the AIDEA *Interior Energy Project, North Slope Liquefied Natural Gas Facility Plan of Development (December 2013)*, and the *Interior Energy Project, Wildlife Interaction and Monitoring Plan (December 2013)*, are incorporated by reference into this LOA. Project field camps and personnel can limit encounters of polar bears by being observant of approaching animals (i.e., the use of polar bear guards) and by allowing the animals to pass unhindered, when practicable. The AIDEA will also: 1) Provide copies of the polar bear observation form to all contractors operating under the LOA; 2) report any polar bear sightings, or signs of polar bears, such as tracks or excavations, to this office using the polar bear observation form or email; and, 3) report any possible den locations that are found during work activities within 12 hours to our office. Biologists from the U.S. Fish and Wildlife Service

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(Service) are available at the phone numbers listed below and noted in your interaction plan if questions or concerns arise.

If a polar bear interaction escalates into a life threatening situation, section 101(c) of the Marine Mammal Protection Act allows, without specific authorization, the take (including lethal take) of a polar bear if such taking is necessary for self-defense or to save the life of a person in immediate danger, and such taking is reported to the Service within 24 hours.

Polar bear conservation has benefited from monitoring programs associated with the Incidental Take Program since 1993. Monitoring serves to assess the effect of industrial activities on polar bears by evaluating trends and effects of bear encounter rates, take frequency, as well as the location and timing of encounters. Additionally, through monitoring, the Service seeks to limit disturbance to maternal polar bear den sites, both known dens and those areas that could possibly be preferred by denning polar bears. Personnel must use caution when operating near these areas during the maternal denning period (mid-November to mid-April).

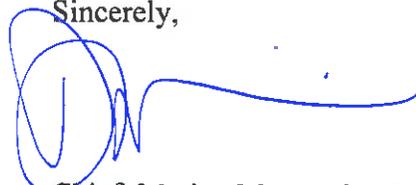
The U.S. Geological Survey has posted information regarding polar bear denning habitat on the Alaska Science Center (ASC) website. The den habitat map (ARC/INFO export file), the mapping manuscript (PDF file) and a picture of den habitat (JPG file) are available on the ASC website: <http://www.absc.usgs.gov/dataproducts.htm>. Use these resources when planning activities in potential denning areas.

If any changes develop during the project, such as activities or location, the Service must be notified prior to the planned operation. This will allow us to evaluate the activity and, if appropriate, amend the LOA.

The Service has completed intra-Service consultation under the Endangered Species Act of 1973, as amended (ESA), and has determined that the issuance this LOA is not likely to jeopardize the continuing existence of polar bears. No additional authorization under the ESA is required.

If you have any further questions, please contact Mr. Craig Perham or Mr. Christopher Putnam of our Marine Mammals Management Office, at (907) 786-3810 or (907) 786-3844, respectively.

Sincerely,

A handwritten signature in blue ink, consisting of a large, stylized initial 'M' followed by a long, horizontal flourish.

Chief, Marine Mammals Management

Enclosure

Mr. Matt Narus

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cc: Mr. Richard Shideler, Alaska Department of Fish and Game (email)
U.S. Fish and Wildlife Service, Fairbanks Fish and Wildlife Field Office
U.S. Fish and Wildlife Service, Office of Law Enforcement
North Slope Borough, Department of Law (email)



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FISH AND WILDLIFE SERVICE

1011 E. Tudor Road
Anchorage, Alaska 99503-6199



U.S. Fish and Wildlife Service

LETTER OF AUTHORIZATION

(14-03)

ISSUED: February 6, 2014
EXPIRES: February 1, 2015

Alaska Industrial Development and Export Authority (AIDEA) is hereby authorized to take small numbers of polar bears and incidental to activities associated with the North Slope Liquefied Natural Gas Facility Project on the North Slope of Alaska.

The proposed project included the construction and operation of a Liquid Natural Gas (LNG) processing facility, pipelines, access road, pads and associated infrastructure. The project is planned to be completed in the fall of 2015. When the facility is operational LNG will be trucked south to Fairbanks and other communities. A detailed description of the proposed activities is provided in the AIDEA *Interior Energy Project, North Slope Liquefied Natural Gas Facility Plan of Development (December 2013)*.

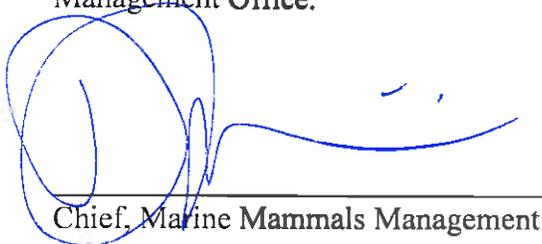
This U.S. Fish & Wildlife Service (Service) Letter of Authorization (LOA) and the required conditions below apply to all employees, contractors, and personnel performing AIDEA approved work under the scope of operations to be conducted. This authorization stipulates the following conditions:

1. Intentional take of polar bears is prohibited.
2. The AIDEA *Interior Energy Project, North Slope Liquefied Natural Gas Facility Plan of Development (December 2013)*, and the *Interior Energy Project, Wildlife Interaction and Monitoring Plan (December 2013)*, are approved and all provisions must be complied with unless specifically noted otherwise in this LOA.
3. A copy of this LOA and the approved plans listed above must be posted and available for all personnel and in the possession of the operators of all vehicles, vessels and aircraft engaging in activities under the authority of this LOA.
4. Project operations managers, or designates, must be fully aware, understand and be capable of implementing the conditions of this LOA.



5. At the discretion of the Service, AIDEA must allow the Service to place an observer on site, including any facilities, vessels, aircraft or vehicles, to monitor the impacts of the activity on marine mammals, when requested.
6. Polar bear monitoring, reporting, and survey activities must be conducted in accordance with 50 CFR Section 18.128 and must comply with the following monitoring, mitigation, and reporting requirements:
 - Project personnel must cooperate with the Service, and other designated Federal, State, or local agencies to monitor the impacts of oil and gas exploration activities on polar bears.
 - If any changes develop in the project during the period approved under this LOA, such as activities, location or methods, AIDEA must notify the Service, Marine Mammals Management Office (MMM) prior to the implementation of such changes.
 - Project personnel must not conduct activities that operate nor pass within one mile (1.6 kilometers) of known polar bear dens, and all observed dens must be reported to the Service, MMM within 12 hours of discovery. If occupied dens are identified within one mile of activities, work within the immediate area will cease and the Service must be contacted for guidance. The Service will evaluate these instances on a case-by-case basis to determine the appropriate action. Potential actions may range from cessation or modification of work to conducting additional monitoring, and AIDEA must comply with any additional measures specified.
 - Qualified personnel must be designated by AIDEA to observe, record, and report the effects of the activity on polar bears to the Service within 24 hours of visual observation.
 - An annual monitoring report must be submitted by AIDEA to the Service, MMM as required under 50 CFR § 18.128, which will be received no later than 90 days after the expiration date of the LOA.

This Letter of Authorization is valid for the period indicated on this authorization, unless extended or terminated in writing by the U.S. Fish and Wildlife Service, Marine Mammals Management Office.



Chief, Marine Mammals Management

FEB 10 2014

Date



United States Department of the Interior

U.S. FISH AND WILDLIFE SERVICE
1011 East Tudor Road
Anchorage, Alaska 99503-6199



IN REPLY REFER TO

MAY 27 2014

AFES/MMM

Mr. Matt Narus, PE
Project Manager
Project Development and Asset Management
Alaska Industrial Development and Export Authority
813 West Northern Lights Boulevard
Anchorage, Alaska 99503

Dear Mr. Narus:

This responds to the request by the Alaska Industrial Development and Export Authority (AIDEA) to amend the Letter of Authorization (LOA) 14-03 for the 2014 North Slope Liquefied Natural Gas Facility Project on the North Slope of Alaska.

As now amended, the LOA includes the new proposed pad site as described in your letter dated May 5, 2014, *Site Transfer Request for Letter of Authorization number 14-03*. The new proposed pad site (labeled as Site A) is located on the Spine Road approximately 0.75 miles west of the site described in our original application (Site B2). Facilities modifications associated with the shift would include the construction of two, rather than one, access roads from the Spine Road to the pad and a reduction in the length of the pipe constructed to deliver liquefied natural gas from the pad to the BPXA field fuel gas pipeline.

All provisions and stipulations in LOA 14-03 remain effective and are applied to this amendment. All provisions contained within AIDEA's, *Interior Energy Project, Wildlife Interaction and Monitoring Plan (December 2013)*, are incorporated by reference into this amended LOA.

If any further changes develop in your project, such as the location of activities or the scale of operations, please notify the U.S. Fish and Wildlife Service, Marine Mammals Management Office (Service) prior to implementing the changes. This will allow us to evaluate the activity and, if appropriate, amend your LOA.

Mr. Matt Narus

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This authorization is issued in accordance with Marine Mammal Protection Act Incidental Take Regulations published in the *Federal Register* (76 FR 47010), dated August 3, 2011. Please review these regulations.

If you should have any further questions, please contact Mr. Craig Perham at (907) 786-3810, or Mr. Christopher Putnam, at (907) 786-3844, of our Marine Mammals Management Office.

Sincerely,


Acting Chief, Marine Mammals Management

Enclosure

cc: Mr. Richard Shideler, Alaska Department of Fish and Game
Fairbanks Fish and Wildlife Field Office
Office of Law Enforcement
North Slope Borough Department of Law



United States Department of the Interior

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1011 East Tudor Road
Anchorage, Alaska 99503-6199



IN REPLY REFER TO:

FWS/MMM

U.S. Fish and Wildlife Service

LETTER OF AUTHORIZATION (14-03; Amended)

Amended: May 16, 2014
ISSUED: February 6, 2014
EXPIRES: February 1, 2015

Alaska Industrial Development and Export Authority (AIDEA) is hereby authorized to take small numbers of polar bears and incidental to activities associated with the North Slope Liquefied Natural Gas Facility Project on the North Slope of Alaska.

The proposed project included the construction and operation of a Liquid Natural Gas (LNG) processing facility, pipelines, access road, pads and associated infrastructure. The project is planned to be completed in the fall of 2015. When the facility is operational LNG will be trucked south to Fairbanks and other communities. A detailed description of the proposed activities is provided in the AIDEA *Interior Energy Project, North Slope Liquefied Natural Gas Facility Plan of Development (December 2013)*. In addition, a new pad is incorporated into this LOA. The new proposed pad site (labeled as Site A in the site transfer request letter, dated May, 2014) is located on the Spine Road approximately 0.75 miles west of the site described in our original application (Site B2). Facilities modifications associated with the shift will include the construction of two, rather than one, access roads from the Spine Road to the pad and a reduction in the length of the pipe constructed to deliver liquefied natural gas from the pad to the BPXA field fuel gas pipeline.

This U.S. Fish & Wildlife Service (Service) Letter of Authorization (LOA) and the required conditions below apply to all employees, contractors, and personnel performing AIDEA approved work under the scope of operations to be conducted. This authorization stipulates the following conditions:

1. Intentional take of polar bears is prohibited.
2. The AIDEA *Interior Energy Project, North Slope Liquefied Natural Gas Facility Plan of Development (December 2013)*, and the *Interior Energy Project, Wildlife Interaction and Monitoring Plan (December 2013)*, are approved and all provisions must be complied with unless specifically noted otherwise in this LOA.
3. A copy of this LOA and the approved plans listed above must be posted and available for all personnel and in the possession of the operators of all vehicles, vessels and aircraft engaging in activities under the authority of this LOA.
4. Project operations managers, or designates, must be fully aware, understand and be capable of implementing the conditions of this LOA.
5. At the discretion of the Service, AIDEA must allow the Service to place an observer on site, including any facilities, vessels, aircraft or vehicles, to monitor the impacts of the activity on marine mammals, when requested.
6. Polar bear monitoring, reporting, and survey activities must be conducted in accordance with 50 CFR Section 18.128 and must comply with the following monitoring, mitigation, and reporting requirements:
 - Project personnel must cooperate with the Service, and other designated Federal, State, or local agencies to monitor the impacts of oil and gas exploration activities on polar bears.
 - If any changes develop in the project during the period approved under this LOA, such as activities, location or methods, AIDEA must notify the Service, Marine Mammals Management Office (MMM) prior to the implementation of such changes.
 - Project personnel must not conduct activities that operate nor pass within one mile (1.6 kilometers) of known polar bear dens, and all observed dens must be reported to the Service, MMM within 12 hours of discovery. If occupied dens are identified within one mile of activities, work within the immediate area will cease and the Service must be contacted for guidance. The Service will evaluate these instances on a case-by-case basis to determine the appropriate action. Potential actions may range from cessation or modification of work to conducting additional monitoring, and AIDEA must comply with any additional measures specified.
 - Qualified personnel must be designated by AIDEA to observe, record, and report the effects of the activity on polar bears to the Service within 24 hours of visual observation.

- An annual monitoring report must be submitted by AIDEA to the Service, MMM as required under 50 CFR § 18.128, which will be received no later than 90 days after the expiration date of the LOA.

This Letter of Authorization is valid for the period indicated on this authorization, unless extended or terminated in writing by the U.S. Fish and Wildlife Service, Marine Mammals Management Office.

Acting C.S. Hertz
Chief, Marine Mammals Management

MAY 27 2014

Date