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## 7.0 FISH AND WILDLIFE PROTECTION

### 7.1 INTRODUCTION

The Project will develop, establish and maintain a Fish and Wildlife Protection (FWP) Program for managing the protection of fish and wildlife resources along the Alaska segment of ANGTS. The primary objective of the FWP Program is to avoid or reduce impacts to fish and wildlife resources to the extent reasonably practicable through prevention measures taken during all phases of the Project including planning and design, construction, rehabilitation, operation and maintenance, and if necessary, decommissioning.

The Project obtained an extensive amount of baseline information from research and field studies, and developed preliminary mitigation approaches during the prior environmental programs. This information is located in several existing documents, including:

- Environmental Master Guide<sup>1</sup>, consisting of sensitive environmental areas mapped onto the pipeline alignment sheets.
- List of Sensitive Environmental Areas and Activity Restrictions<sup>2</sup>, consisting of a listing of areas delineated by pipeline milepost that include biological, cultural resource, and other environmental elements, along with restrictions on the location of fixed facilities, habitat disturbances, and other activities.
- List of Stream Crossings and Activity Restrictions<sup>3</sup>, consisting of a listing of streams and rivers delineated by pipeline milepost, along with restrictions on Project activities taking place within certain rivers and streams at specified months of the year.
- Environmental Management Manual (EMM), consisting of a comprehensive guide to the integration of environmental requirements and considerations into all phases of the Project. The EMM is the primary environmental document for the Project and presents the Project's environmental protection approach. The EMM will be developed from the Project's existing Environmental Engineering Manual<sup>4</sup> and will be updated during the development of the various environmental protection programs. The Project will coordinate with the Alaska Department of Fish and Game (ADFG), Alaska Department of Environmental Conservation (ADEC), Alaska Department of

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<sup>1</sup> ANNGTC. 1981. Environmental Master Guide, Alaska Segment of the Alaska Natural Gas Transportation System. Rev. 3. March. [sheets]. This document is stamped, marked or otherwise identified as confidential and/or proprietary or otherwise protected. The ANNGTC continues to claim confidential treatment for this document, and it should be withheld from disclosure.

<sup>2</sup> Office of the Federal Inspector. 1981. List of Sensitive Wildlife Areas Between Prudhoe Bay and the Canadian Border Along the Proposed Northwest Alaskan Pipeline Company Gas Pipeline Route. November 25.

<sup>3</sup> Office of the Federal Inspector. 1984. List of Sensitive Fish Streams and Activity Restrictions Between Prudhoe Bay and the Canadian Border Along the Proposed Northwest Alaskan Pipeline Company Gas Pipeline Route. April 5.

<sup>4</sup> Environmental Engineering Manual, Exhibit Z-1.1, Volume III, Application Before the Federal Energy Regulatory Commission For a Final Certificate of Public Convenience and Necessity Pursuant to Section 7 of the Natural Gas Act, as amended, and Section 9 of the Alaska Natural Gas Transportation Act of 1976 to construct and operate the Alaska Segment of the Alaska Natural Gas Transportation System, Docket No. CP80 (ANNGTC, July 1, 1980).

Natural Resources (ADNR) and other agencies as appropriate in the identification of environmental baseline information and protection criteria that will aid in development of the EMM document.

- Numerous reports that document fieldwork or other research conducted by the Project related to fish and wildlife resources (these are listed in the Bibliography under Project Specific Information).

The Project will continue to take a systematic approach toward the evaluation of fish and wildlife resources, including the following steps:

- Identify the environmental information needed to develop protection strategies and specific protection procedures.
- Organize and evaluate the information currently in existence, including interviews with knowledgeable individuals and a search for unpublished data.
- Conduct focused field studies, where warranted, to fill the specific information gaps.
- Analyze the potential impact of Project actions.
- Integrate protection strategies and specific applicable procedures into the engineering designs, construction schedules, and construction methods.
- Monitor and document the success of the implemented protection procedures.

## 7.2 CRITERIA

The criteria presented below constitute the preliminary FWP principles that will be used to guide the protection of fish and wildlife during planning, design, construction and operation phases of the Project.

### 7.2.1 General Project Criteria

#### 7.2.1.1 Fisheries

The general Project criteria for fisheries are based on those listed in the Water Resources Protection section of this volume (ENVIS08) and focused on fish resources:

To the extent reasonably practicable, the Project will be designed to:

- Reduce the number of fish bearing river and stream crossings.
- Avoid the use of structures or situations that promote erosion and sedimentation, restriction of natural meander, and alteration of stream flow in fish bearing streams and rivers.
- Reduce the potential for pipeline-induced thermal effects on surface water temperatures in areas that adversely affect fish and other aquatic life.

- Be capable of withstanding adverse conditions such as runoff, stream and floodplain erosion, meander cutoffs, lateral migration, ice jams, and icing conditions that are characteristic for each hydrologic region encompassed by the pipeline route.

Project construction procedures will be managed and conducted, where feasible, to:

- Avoid unauthorized discharges of material of any kind into fish bearing rivers, streams and other water bodies.
- Prevent to the extent reasonably practicable conditions leading to erosion, run-on and runoff, sedimentation on vegetation, or deposition into fish bearing streams and rivers or other water bodies.
- Reduce potential impacts to streambed habitat quality by scheduling construction in fish bearing streams and rivers during low-flow conditions.
- Evaluate the feasibility for utilizing alternative crossing techniques such as directional drilling beneath the bed of fish bearing streams and rivers.

With respect to groundwater:

- The development of the Project design will take into consideration and evaluate the opportunities to reduce the potential for groundwater diversion and thermal effects on springs or discharge to fish spawning and rearing areas in streams, rivers, and wetlands.
- Groundwater encountered during trenching or other Project activities will be discharged in a manner that does not impact surface water in accordance with regulatory requirements.

Additional criteria for protection of fish and fish habitat include, where practicable:

- Minimize the clearing of bank vegetation at stream and river crossings.
- Replace gravel in streambeds.
- Construct stream and river crossings perpendicular to the flow direction.
- Build snow ramps over steep or vertical riverbanks.
- Use flow diversions to maintain fish habitat upstream and downstream of work activities.

#### 7.2.1.2 Wildlife

The Project will attempt to minimize to the extent reasonably practicable impacts to wildlife and their habitats. Where practicable the Project will:

- Avoid sensitive habitats and if this is not possible, schedule work activities to minimize conflicts with wildlife.
- Develop a training program that informs workers of the potential for wildlife interactions and methods to minimize and avoid such interactions.

- Work with agency personnel to develop hazing protocols in such cases where animals must be hazed away from work activities or camps.
- Develop methods for proper handling of food waste.
- Time construction activities to avoid sensitive life stages.
- Initiate rehabilitation of disturbed habitats soon after construction.
- Limit the use of aircraft, for example either by height requirements or frequency restrictions, through known nesting areas (true for raptors and waterbirds).

## 7.2.2 Statutes, Regulations and Other Applicable Authorities

### 7.2.2.1 State Statutes

- Sec. 16.05.840. Fishway Required. Requires that an individual or governmental agency notify and obtain authorization from the Alaska Department of Fish and Game (ADF&G) for activities within or across a stream used by fish if the department determines that such uses or activities could represent an impediment to the efficient passage of fish.
- Sec. 16.05.870. Protection Of Fish And Game. Requires that an individual or governmental agency provide prior notification and obtain approval from the ADF&G "to construct a hydraulic project or use, divert, obstruct, pollute, or change the natural flow or bed" of a specified anadromous waterbody or "to use wheeled, tracked, or excavating equipment or log-dragging equipment in the bed" of a specified anadromous waterbody.
- Sec. 16.05.880. Construction Without Approval Prohibited. If a person or governmental agency begins construction on a work or project or use for which notice is required by AS 16.05.870 without first providing plans and specifications subject to the approval of the commissioner for the proper protection of fish and game, and without first having obtained written approval of the commissioner as to the adequacy of the plans and specifications submitted for the protection of fish and game, the person or agency is guilty of a misdemeanor. If a person or governmental agency is convicted of violating AS 16.05.870 - 16.05.895 or continues a use, work or project without fully complying with AS 16.05.870 - 16.05.895, the use, work, or project is a public nuisance and is subject to abatement. The cost of restoring a specified river, lake, or stream to its original condition shall be borne by the violator and shall be in addition to the penalty imposed by the court.
- Sec. 16.05.890. Exemption For Emergency Situations. In an emergency arising from weather or stream flow conditions, the department "shall issue oral permits to a riparian owner for removing obstructions or for repairing existing structures without the necessity of submitting prepared plans and specifications as required by AS 16.05.870."

- Sec. 16.05.895. Penalty For Causing Material Damage. A person or governmental agency that causes material damage to the spawning beds or prevents or interferes with the migration of anadromous fish shall be guilty of a misdemeanor.
- Sec. 16.05.900. Penalty For Violations Of AS 16.05.870 - 16.05.895. Violators are guilty of a class A misdemeanor; fines will be deposited in the general fund of the state.
- Sec. 16.10.010. Interference With Salmon Spawning Streams And Waters. Requires that an individual or governmental agency notify and obtain authorization from the Alaska Department of Fish and Game (ADF&G) for activities which would render waters used for salmon spawning or propagation inaccessible or uninhabitable.
- Sec. 16.10.030. Penalty For Violation Of AS 16.10.010 - 16.10.050. Violators are guilty of a misdemeanor, punishable by a fine of not less than \$100 and not more than \$500.

#### 7.2.2.2 State Regulations

- 5 AAC 92.033. Permit For Scientific, Educational, Propagative, Or Public Safety Purposes. A permit may be issued to take an animal in the interest of public safety.
- 5 AAC 92.080. Unlawful Methods Of Taking Game; Exceptions. This regulation prohibits project workers from harassing carnivores with motorized vehicles and airplanes.
- 5 AAC 92.230. Feeding Of Game. No person may intentionally feed a moose (except under terms of a permit issued by the department), bear, wolf, fox, or wolverine, or intentionally leave human food or garbage in a manner that attracts these animals. However, this prohibition does not apply to use of bait for trapping fur bearers or hunting black bears under 5 AAC 84 - 5 AAC 92. Project personnel will be briefed on the illegality of feeding these wildlife directly or indirectly. Adequate designs and procedures will be developed to properly store food and dispose of garbage.
- 5 AAC 92.410. Taking Game In Defense Of Life Or Property “A person may take game in defense of life or property if:
  1. the necessity for the taking is not brought about by harassment or provocation of the animal, or by an unreasonable invasion of the animal's habitat;
  2. the necessity for the taking is not brought about by the improper disposal of garbage or a similar attractive nuisance; and
  3. all other practicable means to protect life and property are exhausted before the game is taken.”

An animal taken in defense of life or property becomes the property of the state: salvaged meat or hide shall be immediately surrendered.

The need for taking game in defense of life or property will be minimized by informing personnel through environmental briefings of harassment restrictions, carnivore behavior,

proper storage and disposal of food and garbage. Adequate safeguards will be developed for construction areas and camps to avoid or minimize animal attraction.

- 5 AAC 95.010. Waters Important To Anadromous Fish. The Atlas to the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes, and the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes, are a compilation of maps identifying the various rivers, lakes, or streams, or parts of them, that are important for the spawning, rearing, or migration of anadromous fish.
- 5 AAC 95.420. Activities Requiring A Special Area Permit. A permit must be obtained before any habitat altering or disturbance-producing activity may be performed in a designated state refuge, critical habitat, or game sanctuary.

#### 7.2.2.3 Federal Statutes and Regulations

- 16 USC Section 668. Bald Eagle Protection Act. Any person who knowingly takes a bald eagle, alive or dead, part, egg, or nest, shall be fined up to \$5,000 and/or receive up to one year in prison. This includes associations, partnerships and corporations. The definition of take includes pursue, shoot at, molest and disturb.
- 16 USC Sections 703-712. Migratory Bird Treaty Act. Any take of migratory birds shall result in a fine not more than \$15,000 and/or a prison term of not more than 6 months. This includes persons, associations, partnerships and corporations. The definition of take includes pursue, shoot at, molest and disturb. As allowed by the Secretary of the Interior, the use of migratory birds by indigenous Alaskans may be allowed for their essential needs during seasons that preserve and maintain the stocks of migratory birds.
- 16 USC Sections 1361-1407, 50 CFR Sections 18.1-18.129. Polar Bear Regulations, Marine Mammal Protection Act, (Chapter 1 – FWS, Part 18 – Marine Mammals). The Marine Mammal Protection Act of 1972 prohibits the take or harassment of any marine mammals (includes polar bears) with some exceptions, primarily for scientific and educational purposes. Under section 101(a)(5) of the Act, citizens engaging in certain activities shall be allowed incidental take of small numbers of marine mammals (polar bears).
- The Federal regulations pertaining to aircraft harassment of wildlife are included in Title IV, Fish and Wildlife Conservation (16USC 742 J-1, Airborne hunting). This regulation prohibits the harassing of any animal with the aid of an aircraft. "Any person who ... (2) uses an aircraft to harass any bird, fish, or other animal; or (3) knowingly participates in using an aircraft for any purpose referred to in paragraph... (2); shall be fined... All...aircraft...shall be subject to forfeiture to the United States."
- 50 CFR 27.51. Prohibited Acts Disturbing, Injuring, And Damaging Plants And Animals. "(a) Disturbing, injuring, spearing, poisoning, destroying, collecting or attempting to disturb, injure, spear, poison, destroy or collect any plant or animal on any national wildlife refuge is prohibited except by special permit."
- 50 CFR 17.1. Endangered Species Act

- Spectacled and Steller’s eiders are the only federally-listed Threatened or Endangered species that are reported to occur in the general region of the pipeline route and the site for the gas conditioning facility. These birds occur on the North Slope during the summer nesting season. Their preferred habitats include lakes and ponds with emergent vegetation along the arctic coastal plain, including the general Prudhoe Bay area. There is some evidence that they move to nearshore waters of the Beaufort Sea post nesting and brood rearing. The more likely of the two species to be within the project area will be spectacled eiders, which have a distribution further to the east than the Steller’s eider.
- The Endangered Species Act (ESA) is administered by the USFWS for migratory birds, and it is expected that construction and operations related activities would be reviewed by the USFWS during an ESA Section 7 Consultation<sup>5</sup>.
- Peregrine falcons have been a species of concerns for many years. However, good management and the banning of DDT have enabled the bird to be removed from the endangered species list. Two sub-species of peregrine falcons are found along the pipeline corridor, the American peregrine falcon and the arctic peregrine falcon. After delisting of any species from the ESA, the species is monitored for a period of five years to insure the recovery is complete. Only the American peregrine falcon is still under the mandatory five-year monitoring period.
- Department of the Army Section 10 and 404 Permit
  - Permit 071-OYD-2-830282 “Sagavanirktok River 120”, January 4, 1984 (as modified September 9, 1987). This permit expires September 7, 2007.
  - Special Conditions (28) establish restrictions on the methods, locations, and schedule of construction to protect surface waters and wetlands.
  - Permit is for “C” wetlands only. Work in “B” wetlands requires a site-specific individual permit. (No activity allowed in “A” wetlands).
  - As a condition of the Corps Section 404 permit, the Project is required to conduct its activities “. . .in accordance with the conditions outlined in the OFI’s List of Sensitive Wildlife Areas<sup>6</sup> and List of Fish Streams<sup>7</sup> for the proposed gas pipeline corridor from Prudhoe Bay to the Canadian border.”

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<sup>5</sup> Refers to Section 7 of the ESA that requires that the USFWS be consulted prior to any activity in a threatened or endangered species habitat. Often the USFWS writes a biological opinion regarding the action and potential impacts of the action.

<sup>6</sup> List of Sensitive Wildlife Areas Between Prudhoe Bay and the Canadian Border Along the Proposed Northwest Alaskan Pipeline Company Gas Pipeline Route (Office of the Federal Inspector, Nov. 25, 1981).

<sup>7</sup> List of Sensitive Fish Streams and Activity Restrictions Between Prudhoe Bay and the Canadian Border Along the Proposed Northwest Alaskan Pipeline Company Gas Pipeline Route (Office of the Federal Inspector, Apr. 5, 1984).

#### 7.2.2.4 Other Applicable Authorities

- 18 CFR 380.12, “FERC’s Environmental Reports for Natural Gas Act Applications,” and FERC environmental policy guidelines thereunder;
- Federal Right-of-Way Grant for the Alaska Natural Gas Transportation System Alaska Segment, Serial No. F-24538 (December 1, 1980), as such may be updated and/or amended from time to time.
- Federal Energy Regulatory Commission conditional certificate of public convenience and necessity, issued on December 16, 1977, as such is finalized.

### 7.3 METHODOLOGIES

The methodologies for implementing the FWP Program include:

- A Fish and Wildlife Protection Plan (FWPP) will be developed.
- Review of the baseline assessment of fish and wildlife resources along the pipeline corridor and evaluation for possible updates where significant data gaps occur.
- Focused field studies to fill specific data gaps.
- Review of fish and wildlife effects and mitigation techniques used during the construction and operation of the Trans-Alaska Pipeline System (TAPS).
- Development and integration of FWP criteria and principles into the planning, site selection, design, and construction of the pipeline and related facilities. This will involve close coordination with other technical and environmental protection programs, in particular:
  - Design Basis and Considerations (TIS03)
  - Material Sites (TIS05)
  - Disposal Sites (TIS06)
  - Clearing (TIS10)
  - Drainage and Erosion Control (TIS11)
  - Construction Rehabilitation (TIS12)
  - River, Stream and Wetland Crossings (TIS16)
  - Environmental Management (ENVIS01)
  - Waste Management (ENVIS04)
  - Water Resources Protection (ENVIS08)
  - Briefings, Orientation and Education (ENVIS11)
  - Noise Protection (ENVIS12)
  - Subsistence Use Protection (SSIS01)

Coordination with these technical and environmental protection programs is critical to the Project and will be facilitated by Environmental Management Program (ENVIS01).

### 7.3.1 Fish and Wildlife Protection Plan (FWPP)

- The FWPP will be developed to outline the structure and functions of the FWP Program and will provide a roadmap for integrating the fish and wildlife protection methodologies into all phases of the Project including design, construction, operation and maintenance.

### 7.3.2 Review of Baseline Information

An extensive catalog of biological studies information has been compiled for the pipeline project (see Section 7.5, Bibliography). The Project began a field biological studies program in 1976. The early work concentrated on the “Delta South” portion of the route. This was the least studied section as it diverges from the general TAPS alignment at Delta Junction and proceeds East to the Canada border. Starting in 1978, studies were expanded to include the “Delta North” portion of the pipeline. These field studies continued until 1980 when project activity was suspended.

Many additional biological studies were completed to assist in the planning, construction and subsequent operation of TAPS. These included bird, mammal and fish studies from the North Slope to Valdez. Further, TAPS operations over the last 25+ years have added to the knowledge of pipeline impacts on fish and wildlife. This is particularly true for birds and fish. This valuable first hand knowledge will be carefully integrated into the planning process and the final FWPP.

An important part of updating the existing information will include a review of contemporary scientific and engineering literature, reports and other sources of data or information that are relevant to the protection of fish and wildlife resources during the life of the project. A preliminary bibliography has been developed that consists of a compilation of lists from recent reports. This bibliography will be further updated during the development of the FWPP.

Interviews with knowledgeable people will also be conducted during this phase of development of the FWPP. This would include biologists from the public and private sectors. These interviews can help set priorities for the field studies that will follow.

### 7.3.3 Field Studies

Where significant data gaps are identified, an evaluation of the need to obtain additional field data will be performed. If the data gaps cannot be filled through consultation or other published information then a site specific and focused field study may be performed. The criteria for determining the need for additional field study will be documented.

Much of the data collected from previous biological field studies are still useful today. However, other studies may need to be updated to include current observations. An example of the latter would be surveys to update the location of raptor nesting sites. All such sites are protected by one or more regulation(s).

As noted above field biological studies were begun in 1976 and continued for the next several years. Though many field techniques have changed and been modernized since then, i.e. GPS location systems, GRD mapping system, etc., methods used during these early studies should be

carefully examined and followed when practical. New data gathered will then be comparable to previously gathered information.

Field studies are grouped into three categories:

- Birds – waterfowl, shorebirds, raptors, passerines (sandhill cranes have been studied separately in previously studies)
- Mammals – bears, moose, caribou, bison, goats, sheep, wolves, fox, furbearers (including beavers, lynx, and small furbearers like weasel, mink and martin)
- Fish – resident and anadromous

Field studies will be designed with clear objectives defined. For example, a Mammals Program would emphasize the following requirements:

- To provide adequate baseline data on mammals and mammal habitat along the Project pipeline corridor not available from other sources for pre-construction planning, final location of facilities, determining final alignment, construction scheduling, subsistence protection, and to minimize or avoid adverse impacts.
- To evaluate and incorporate measures to mitigate adverse impacts to mammals and their habitat during construction and operation of the Project.
- To provide ongoing consulting in the area of mammal studies, such as recommendations for construction and post-construction monitoring efforts.”

These types of objectives will be integrated into the FWPP.

#### 7.3.4 Mitigation Approaches

Once the Project has completed the baseline information review and focused field studies that were identified as necessary are done, the information will be used to further develop mitigation approaches and techniques, and to aid in development of a monitoring plan. The mitigation element of the FWP Program will be closely coordinated with other environmental protection programs. In particular: Rehabilitation; River, Stream and Wetland Crossings; Waste Management; Water Resources Protection; and Subsistence Use Protection.

There have been several mitigation type documents that have been produced to help define appropriate measures. For example, there are documents that describe fish protection measures (Morsell et al 1981) and fish mitigation and passage (Evens and Johnson 1972) discuss mitigation techniques. In addition the ADF&G has developed several documents including those that look at design of culverts for fish passage, streambank revegetation, and temporary stream diversion techniques<sup>8</sup>.

A good mitigation program will be implemented with a good corresponding training program. Consequently Project personnel developing the Briefings, Orientation and Education program will require input as the mitigation program is developed.

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<sup>8</sup> See [http://www.state.ak.us/adfg/habitat/hab\\_home.htm](http://www.state.ak.us/adfg/habitat/hab_home.htm).

### 7.3.5 Dangerous Wildlife Control

Dangerous Wildlife Control is an important component of the FWPP that addresses the potential encounters between humans and dangerous wildlife by Project workers. This section outlines a preliminary Dangerous Wildlife Control Plan that describes the methodologies to reduce dangerous wildlife encounters through proper training, waste handling and protective measures that are available for the Project to implement.

#### 7.3.5.1 Introduction

This section describes actions that will help minimizing the occurrence of human-wildlife interactions during pre-construction, construction and operation of the ANGTS pipeline.

Potential dangerous wildlife encounters, which may occur during the construction of the pipeline, pose a threat to animal resources as well as safety to workers. Dangerous wildlife species that occur in the areas of the Project are considered to include:

- polar bear
- grizzly (brown) bear
- black bear
- moose
- wolf
- wolverine
- arctic and red fox

Dangerous wildlife that become habituated to artificial food sources and to humans, can become dependent on handouts and are subject to the effects of poor nutrition. Young animals raised to be dependent on artificial foods may not learn survival/foraging skills. Wildlife habituated to food may approach camps, humans or vehicles too closely and be killed accidentally by vehicles or destroyed as a nuisance.

Food habituated bears, wolves and foxes can threaten humans through:

- Economic loss through property damage and disruption of work;
- Diminished wildlife resources;
- Disease, especially rabies; and
- Physical attack.

Protection of humans and wildlife will best be realized by preventing their interaction. The health and safety of workers and wildlife will be protected by:

- Fencing areas of human habitation at pipeline camps and compressor and metering stations,
- Reducing and eliminating wildlife attractants,

- Providing employees with environmental training on wildlife avoidance, and developing a contingency plan for control of problem animals (ENVIS11).
- Project personnel compliance with the Project Labor Agreement's and Alaska Laws and Regulations with disciplinary action as required.

Recent studies on the North Slope have demonstrated successful bear deterrence by constructing an electrified fence around the landfill. Several generations of grizzly bears had become habituated to human garbage and frequented this easy source of food. Fence designs for camps, landfills and compressor stations will include wildlife deterrence features.

The Project will greatly minimize wildlife attractants by proper food storage, garbage storage, and collection and incineration program and by prohibition of animal feeding activities.

The Project considers that education of personnel will substantially alleviate many of the potential dangerous wildlife problems. Environmental briefings (ENVIS11) will include reviews of pertinent laws, regulations and project policies regarding feeding wildlife and other areas of concern. Personnel will be taught methods of reducing wildlife attractants. Periodic reviews and appraisals of program results will occur.

It is likely that even with the prohibitive measures described in this document and in Waste Management (ENVIS04), individual animals may pose a threat to personnel safety. Wildlife must be discouraged at their first arrival at camps or airfields. The source of attractant at camps and airfields will be located and removed. Persistent bears and canids may pose even greater dangers to personnel as wildlife become habituated to humans and more aggressive in their actions.

Extermination of individual bears or canids will be a last resort control method done in immediate defense of life or property. Instances requiring the removing or extermination of problem wildlife, except immediate action in the defense of life or property, will be referred to the appropriate agency. Requirements for the disposal of problem animals will be provided by the Alaska Department of Fish and Game.

Satisfactory control of potential problems due to habituated wildlife will require a carefully constructed plan with support from the Alaska Department of Fish and Game, the agency vested with the responsibility for managing the wildlife resource and prosecuting offenders (except polar bears which are managed by the USFWS).

#### 7.3.5.2 Objectives

The objectives of the Dangerous Wildlife Control Plan are to:

- Provide Project criteria to protect the health and safety of all persons who may have the opportunity for contact with wildlife.
- Provide protection to wildlife potentially subject to project impacts
- Describe continuing human-wildlife interactions along the Project route.
- The Project construction contracts will specify compliance with applicable laws, regulations and camp rules relating to wildlife feeding and harassment and the disciplinary actions that would result.

Also included herein are:

- Fencing specifications for pipeline camps and compressor and metering stations.
- Methods of reducing wildlife attractants.
- Discussion of environmental training for personnel.
- Contingency plan for control of problem animals.

#### 7.3.5.3 Historical Problems

Bears, wolves and foxes have the greatest potential for dangerous interaction with Project workers during the pre-construction, construction and operation phases. Many of these animals have become food conditioned, since the construction of the Dalton Highway and the Trans Alaska Pipeline System (TAPS). Food conditioned wildlife present an ongoing problem of human safety as well as to the safety of those conditioned animals.

Bears, wolves and foxes can cause economic loss through property damage and disruption of work. Property damage from these animals usually results from their attempts to get food or garbage.

Wildlife can transmit many diseases, which can be lethal to humans as well as the animals. Wolves and foxes are particularly susceptible to zoonotic diseases; rabies is of primary concern to humans. Canids attracted to artificial food sources, such as camps or dumps, where they are fed increase the probability of disease transmission. Bears can also transmit disease to humans, but represent a more direct threat by the physical injury they can inflict on an individual.

Direct physical attack on humans by canids is not a primary issue. Healthy, wild canids, if not food conditioned, are shy and avoid direct contact with humans.

Bear attacks on humans often occur as a result of humans intentionally or unintentionally approaching them too closely. Polar bears are known to stalk humans and special caution needs to be taken in polar bear habitat (only on the North Slope). Bears are dangerous when surprised by humans, especially while they are guarding food or protecting cubs.

Most instances of black bears attacking humans involve bears that are being fed or are using a dump as a food source. Habituated black bears and grizzly bears can become bold in their approach to humans and may attack humans in efforts to obtain food.

#### 7.3.5.4 Mitigation Approaches

Remedial actions taken for problem bears throughout North America range from doing nothing to harassment, to translocation, and to killing. There have been efforts in many areas to improve garbage disposal and storage. Dick Shideler of the Alaska Department of Fish and Game (ADF&G) has studied grizzly bears on the North Slope for over a decade. His suggestions and insistence on bear proof garbage dumpsters and fencing of the landfill have all but eliminated access to anthropogenic food sources for the bears. The Environmental Briefings, Orientation, and Education Program (ENVIS11) will include bear awareness training information to insure each worker is informed of the proper behavior in bear habitat. In addition, several other papers suggest a reduction in bear problems when garbage is less readily available to bears (Chase

1971; Merrill 1978; Rogers et al. 1976; Schnoes and Starkey 1978), and this appears to be a solution in many cases. Schnoes and Starkey (1978) obtained information from twenty-two U.S. national parks and found that during 1977 garbage handling accounted for 4,000 of the total 22,954 man-days spent on bear management activities. This represents a significant amount of effort.

The present situation along the Dalton Highway presents a unique set of problems. The general public is allowed to travel the road and may feed wildlife to attract them closer for pictures or just the experience (this despite it being illegal). Thus even with very good training and education for every worker, problem animals may still be encountered.

#### 7.3.5.5 Project Interaction with Regulatory and Enforcement Agencies

As presented in Section 7.2 Criteria, government laws, regulations and the Federal stipulations recognize the potential problems of wildlife interactions during pre-construction, construction and operation of the pipeline. Regular interaction between the Project and regulatory and enforcement agencies will be an integral part of pipeline pre-construction activity. Federal government agencies and the Project have agreed upon stipulations for the right-of-way, which are reference points for creating the pipeline design. Federal and State agency review and feedback will continue to help the Project refine the Dangerous Wildlife Control Plan.

#### 7.3.5.6 Development of Protection Strategies

The Project will continue to develop protection strategies to reduce interactions between wildlife and humans.

#### 7.3.5.7 Design Input

Project environmental personnel reviewed design aspects that may affect human-wildlife interactions. Design of permanent and temporary facilities, which are areas of human concentration, are of particular concern with respect to potential wildlife problems.

Wildlife attractants will be minimized by proper storage of food and disposal of liquid and solid wastes to minimize odors (see ENVIS04).

#### 7.3.5.8 Implementation

Protection of both humans and dangerous wildlife will best be realized by preventing their interaction. The goal of this program is to protect the health and safety of workers and wildlife by 1) fencing areas of human habitation, 2) reducing attractants, 3) providing project employees with environmental training on how to avoid wildlife, 4) providing training to selected personnel to haze bears and other wildlife, and 5) developing a contingency plan for control of problem animals. A discussion of each of these strategies follows.

### 7.3.5.9 Fencing

Pipeline camps and compressor/metering stations will be fenced during construction and during operation of the pipeline. Fencing these areas of human habitation will help to eliminate many wildlife encounters. Different fence designs will be developed depending on the most likely species to be encountered along the pipeline. Some fencing will be electrified as purely physical barriers are not adequate unless designed to extreme specifications a measure that would be unnecessarily difficult and expensive. Other fencing will not need electrification. For example, the TAPS construction experience strongly suggests that temporary and permanent facilities located in certain areas north of the Yukon River have a high potential for wildlife problems, particularly with bears. The old camp locations of Five-Mile and Chandalar are examples of areas where there were many problems with bears during TAPS construction.

### 7.3.5.10 Reducing Wildlife Attractants

Food and garbage and their associated odors attract wildlife to camps and other areas of human activity. These wildlife attractants will be eliminated or greatly minimized by proper food storage, effective and consistent garbage storage, and collection and incineration program and by prohibition of animal feeding.

Food will be stored in odor proof containers in kitchen or food storage trailers. The dining, kitchen and food storage trailers will have bear-proof knobs/latches to prevent easy entry for bears into food areas.

Food for consumption in the field will be kept in vehicles in sealable containers to minimize odors or will be served from a mess truck.

Putrescible wastes, including kitchen wastes, fats and grease, sandwich wrappers and lunch remains, will be stored, collected and incinerated to minimize wildlife attractants.

Kitchen fats and greases are generated at an estimated rate of 110 gallons per week per 1,000 men in camp (ENVIS04). Fats and greases will be recovered in the kitchen to the extent possible and placed in leak-proof containers, and disposed of according the approved waste management method to avoid accumulation.

A central grease trap will be installed to the wastewater drain line outside the kitchen. Grease from the trap will be routinely collected and disposed according to the approved waste management method.

Domestic refuse will be placed in garbage containers in each dormitory room and in shower/wash rooms. The garbage containers will be lined with plastic bags, which will normally be collected daily, consolidated in suitable containers, and disposed according to the approved waste management method. The domestic refuse at the permanent facilities (which have no living quarters or kitchen facilities) will be collected and stored in plastic bags and transported periodically for disposal according to approved waste management method.

Putrescible wastes generated in the field such as lunch remains, will be placed in bear-proof containers and will be taken to camps for disposal by an approved waste management method.

Incinerators may be installed at construction camps, except at AGCF where the North Slope Borough solid waste utility will be used. The incinerators, if installed, would be capable of burning approved wastes and would be equipped to screen odors of burning wastes which could

act as attractants. It is estimated that ten pounds of solid wastes per person per day will be incinerated (ENVIS04).

Feeding of wildlife is a primary cause of repeated dangerous wildlife interactions. Direct and indirect feeding (by leaving food or garbage in such a manner that it attracts animals) are prohibited by state regulations, agency stipulations and an established Project policy. Individuals not complying with this restriction will be subject to disciplinary action by the Project. In addition to disciplinary actions, individuals may be subject to prosecution by the state and federal authorities.

#### 7.3.5.11 Training

Training will be performed as part of the Environmental Briefings, Orientation, and Education Program (ENVIS11). Education of personnel will reduce many of the dangerous wildlife problems. The Dangerous Wildlife Control Plan will be described during the Environmental Briefings and will include a review of federal and state laws, regulations, and stipulations regarding interactions with wildlife. The review will emphasize that feeding of wildlife is illegal. This review will also include thorough explanations of disciplinary policy for individuals not complying with the "no feeding" restriction.

Personnel will be taught methods of reducing wildlife attractants by using proper procedures for disposing of garbage and other solid and liquid wastes. During the pre-field orientation and ongoing presentations at camps, the general behavior of wildlife will be explained, as will the possible results of dangerous wildlife interactions, such as transmission of rabies and parasites, human injury, and harmful outcomes of such interactions to bear and canids. Current bear safety videos will be shown. There will be periodic reminders at the jobsite and in camps, of the dangers of feeding wildlife and procedures for wildlife avoidance.

In addition, bear interaction plans will be developed. Interaction plans have been successfully used on the North Slope for new projects for several years. This has been particularly true for winter projects when polar bears may be an issue (such may be true for construction of the northern portion of the pipeline and the AGCF). The plans outline among other topics, procedures for training, orientation of buildings, lighting, hazing and evacuation procedures and snow removal. These plans also help agency personnel insure bear safety has been adequately addressed.

#### 7.3.5.12 Hazing

Hazing is an important tool for control of dangerous wildlife. The Project will identify and train certain Project personnel for wildlife hazing. This responsibility may be coordinated with Project security. Trained hazing personnel will be stationed at camps and work sites where wildlife encounters may occur.

#### 7.3.5.13 Problem Animal Control

It is likely that even with the prohibitive measures described above, individual animals may pose a threat to personnel safety. Wildlife must be discouraged at their first arrival. The sources of attractants should be located and removed and the animals hazed.

Persistent bears and canids may pose even greater dangers to personnel as these animals become habituated to human food and more aggressive in their actions.

Killing of individual bears or canids will be a last resort control method done in defense of life or property. Instances requiring the removing or killing of problem animals, except immediate action in the defense of life or property, will be referred to the appropriate agency. Agency control officers must be notified as provided in law when animals are killed in defense of life or property.

Interaction with regulatory and enforcement agencies will continue throughout the Project construction and operation.

#### 7.4 FIGURES AND TABLES

(None)

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This bibliography is presented separately for Project-specific information and other information that is Project location-specific or general Alaska information taken from recent reports and from literature searches. This bibliography will be updated during the development of the FWP Program. The second section is intended only to illustrate the availability contemporary fish and wildlife information related to the Project route that has become available over the past 20 years.

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