

In Response to  
The U.S. Department of the Interior  
Stipulations for Alaska

Part 1.6.1

PLAN NO. 7

ENVIRONMENTAL BRIEFING

# ALASKA SEGMENT

ALASKA NATURAL GAS TRANSPORTATION SYSTEM

Alaskan Northwest Natural Gas  
Transportation Company

**CONFIDENTIAL/PROPRIETARY**

In Response to  
The U.S. Department of the Interior  
Stipulations for Alaska

Part 1.6.1

PLAN NO. 7

ENVIRONMENTAL BRIEFING

**BUSINESS  
INFORMATION**

"BUSINESS" information for Federal Government  
purposes in accordance with 10 CFR 1504 (F.R.R.  
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ALASKAN NORTHWEST NATURAL GAS TRANSMISSION COMPANY

October 1982

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# Office of the Federal Inspector

## Alaska Natural Gas Transportation System

605 West Fourth Street, Room 107  
Pouch 6619  
Anchorage, AK 99502

28 OCT 1982

Date

TO: Reviewing Agencies  
FROM: Earl N. Kari  
Acting Director, Office of Environment  
SUBJECT: Stipulation 1.6.1 Plans

The attached plan has been submitted by Northwest Alaskan Pipeline Company (NWA) in accordance with Stipulation 1.6.1 of the U.S. Department of the Interior Grant of Right-of-Way, which states that the company shall submit comprehensive plans and/or programs covering some 25 topics. These plans will probably be part of the contractor's bid document and notice-to-proceed applications as well as reference documents during construction. Therefore they represent a critical element of NWA's overall approach to implementation of the design prior to and during construction and operation.

We would appreciate your review of this plan and the benefit of your comments.

### IMPORTANT

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Attachment

TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
1.0	SCOPE	7-1-1
1.1	Introduction	7-1-1
1.2	Objectives	7-1-1
1.3	Program Approach	7-1-2
2.0	SUMMARY	7-2-1
3.0	CRITERIA	7-3-1
4.0	METHODOLOGY AND IMPLEMENTATION	7-4-1
4.1	Environmental Orientation	7-4-1
4.2	Continuing Environmental Awareness	7-4-5
4.3	Reorientation	7-4-6
5.0	REFERENCES	7-5-1

ATTACHMENT-A LIST OF POTENTIALLY USEFUL MOVIES

1.0 SCOPE

1.1 INTRODUCTION

Construction projects in Alaska have the potential for adverse environmental impacts that can arise from the actions of individuals who are not aware of the full significance of these actions. Typical examples include:

- o Careless or accidental spills of oil or other hazardous substances,
- o Degradation of water quality through sediment discharge into lakes or streams,
- o Feeding of wildlife or improper disposal of lunch trash,
- o Intentional harrassment of wildlife,
- o Improper operation of equipment in anadromous fish streams,
- o Disturbance of habitat outside of authorized construction zone,
- o Caused thermal disturbances,
- o Disturbance of archaeological or historical resources,
- o Fires,
- o Littering.

To reduce such environmentally related impacts, this Plan is being prepared pursuant to Sections 1.6.1 and 2.1 of the Stipulations.

1.2 OBJECTIVES

The objective of this program is to prevent certain types of unnecessary environmental impact from occurring through a comprehensive environmental training program. A further objective is to ensure effective project regulatory compliance through employee education, where emphasis will be placed on understanding the how and why of specific procedures as they relate to environmental impacts, agency laws and regulations, company policy, associated legal penalties, and agency enforcement while working in Alaska.

1.3 PROGRAM APPROACH

This program consists of three elements; 1) an Environmental Orientation, 2) Continuing Environmental Awareness, and 3) periodic Reorientation. The Environmental Orientation will be the initial briefing received by all employees at the time of hire or prior to participation in field activities. Following this initial orientation, a Continuing Environmental Awareness program will ensue throughout the life of the project. All employees will continue to receive reinforcement directly through voluntary participation in activities (e.g., lectures and films), and through posters and film leaders (short movies). The third element of the program, Reorientation, will be required of all employees at established intervals.

2.0 SUMMARY

The Environmental Briefing Program will be developed by the Environmental Affairs staff. The individual workers and their supervisors, as well as the various levels of management, will be made aware of the significance of their actions through the Environmental Briefings and as a means of assuring adherence to prescribed environmental standards. The initial Environmental Orientation, which to many workers and supervisory personnel may be their first contact with life in Alaskan wilderness, will be presented using the most effective techniques available. The goal is to impart this important message and maintain audience attention. As the employees settle into their work routine, they will be further exposed to the Continuing Environmental Awareness Program which will be aimed at reinforcing and adding to their initial exposure. A reorientation program, similar in content to the initial Environmental Orientation, will be required for all employees at periodic intervals. Both the Environmental Orientation and the Continuing Environmental Awareness programs will be subject to continual review and periodic updates.

### 3.0 CRITERIA

Environmental Briefing criteria are established by the U.S. Department of Interior - Grant of Right-of-Way for the Alaska Natural Gas Transportation Systems for all phases of project field activities for the Alaskan Segment. It is assumed that similar stipulations will be included in the State of Alaska Right-of-Way Lease. All stipulations applying to the pipeline may not necessarily be applicable to the AGCF.

3.1 Legislation, regulations, and previous governmental submissions specific to the Alaska Segment include:

- o President's Decision and Report to Congress
- o Alaska Natural Gas Transportation Act
- o FERC Filing, Docket No. CP80-435
- o Federal Right-of-Way Grant and Stipulations

3.2 The Environmental Briefing Plan will ensure that adequate information is provided to all personnel concerning the various Federal, State and local laws and regulations applicable to project activities. The majority of these laws and regulations do not require a formal briefing program and will not be cited in this section. The primary requirement for Environmental Briefings is Sections 1.6.1 and 2.1 of the Stipulations attached to the U.S. Department of the Interior's Grant of Right-of-Way and it is anticipated that the same requirements will be in the State ROW Lease.

- o 1.6 DESIGN CRITERIA; PLANS AND PROGRAMS
  - 1.6.1 "The COMPANY shall submit...comprehensive plans and/or programs...  
  
(7) Environmental briefings"
- o 2.1 ENVIRONMENTAL BRIEFINGS
  - 2.1.1 "The COMPANY shall develop and provide environmental briefings for supervisory and field personnel directly related to the project and for Federal field representatives in accordance with the approved environmental briefings plan required by Stipulation 1.6.1."



o 2.16 HUNTING, FISHING AND TRAPPING

2.16.1 "The COMPANY shall inform its employees, agents, contractors, subcontractors, and their employees of applicable laws and regulations relating to hunting, fishing, and trapping."

#### 4.0 METHODOLOGY AND IMPLEMENTATION

Attendance at the Environmental Orientation will be required for all employees who are assigned to field locations or who will be in the field for any purpose. This includes management, supervisors, craft personnel, camp staff (e.g., cooks, vehicle mechanics) and support staff (e.g., aircraft pilots). The Environmental Orientation session will be presented to each individual in Fairbanks, or at other locations as later designated, prior to employees' entry into the field for actual work. This program will be ready for implementation prior to mobilization for major field activity. (In the interim, Pipeline field activities personnel are required to participate in a 45 minute formal slide presentation followed by a discussion and question/answer session.)

Even though this formal program will continue throughout the construction phase, there will be an ongoing Continuing Environmental Awareness program. This program can be in the form of posters, short movie selections, pamphlets and presentations. This reinforcement of environmental concerns will build upon the initial program. Additionally, each employee will be periodically required to attend an Environmental Reorientation.

#### 4.1 ENVIRONMENTAL ORIENTATION

The Environmental Orientation will be a formal standardized program presented to all employees at designated locations prior to the employees' entry into the field to begin actual work. Copies of the Environmental Manual and State Hunting, Trapping and Fishing Regulations will be available to employees. Additionally, the Field Handbook will be given to all individuals at the Environmental Orientation session. At the conclusion of the program, each participant will receive a certification of attendance. Table 1 is a list of the topics to be discussed in the Environmental Orientation.

TABLE 1 - OUTLINE OF TOPICS

ENVIRONMENTAL ORIENTATION

- Introduction
- Human-Wildlife Interactions
  - Carnivore Feeding
  - Dangerous Wildlife
  - Use of Fences
  - Wildlife Harrassment
  - Wildlife Related Diseases
  - Hunting - Fishing - Trapping Laws
  - Nusiance or Threatening Wildlife
  - Sensitive Wildlife Areas
- Water Resources
  - Land Clearing Operations
  - Vehicles and Equipment in Water
  - Pumping Operations
  - Ditch Dewatering - Siltation
  - High Pressure Discharges
  - Culvert Installation
- Construction Practices in Frozen Soils
  - Description of Permafrost Soils
  - Access Routes for Equipment
  - Procedures for Stopping Damages
  - Special Procedures for Avoiding Damage
  - Rehabilitation Procedures
  - Rehabilitation Responsibilities
  - Vehicle Restrictions
- Restoration Plans
  - Storage and Reuse of Organics
  - Revegetation
- Cultural Resources
  - Native Cultures
  - Historic Resources
  - Archaeological Site Identification
  - Archaeological Notifications
  - Cultural Resource Site Protection Laws
- Litter and Waste Disposal
  - Noncombustibles
  - Combustibles
  - Putrescibles
  - Litter
- Oil and Hazardous Substance
  - Container Disposal
  - Spill Reporting Requirements and Procedures
  - Spill Cleanup Requirements, Basic Principles, and Procedures

Air Quality  
    Open Burning  
    Fugitive Dust  
Wildlife Life Histories

#### 4.1.1 Environmental Orientation Visual Aids

The primary visual aid for the Environmental Orientation will be a professionally produced movie presented in segments and punctuated by discussion to maintain interest and better cover specific topic areas. Slides may be used for additional emphasis. The primary objective of the movie will be to advise employees of the environmentally based laws, regulations and stipulations, and their associated penalties. Secondly, the program will inform the audience of the reasons for the restrictions, the value of existing resources and the environmental impacts that can result from ignoring basic common sense principles in Alaska. The movie as well as the entire program will be under continual review and updated as needed to reflect field experience and feedback from field monitoring personnel.

#### 4.1.2 Environmental Manual

The Environmental Manual will provide an in-depth coverage of topics presented in the formal Environmental Orientation briefing and will include several related topics of general interest. Objectives of the manual are to reinforce information presented during the briefing and to provide a reference source for workers throughout their employment on the project. In order to realize these objectives, the manual must include useful information and be in a format which will encourage the employee to keep it handy and refer to it often. This will be accomplished by including detailed maps of the project ROW and other information useful in the field.

#### 4.1.3 Question and Answer Session

Ten to fifteen minutes will be set aside at the end of each Environmental Orientation session to respond to individual questions. Staff members from various disciplines will be available to respond to specific questions.

#### 4.1.4 Program Monitoring

The Environmental Orientation will be subject to a Quality Assurance review for content and effectiveness of presentation. Quality Assurance will audit attendance control procedures and records. In addition to the quality controls, the Environmental Orientation program will be subject to continuous evaluation and periodic updates as the need arises.

#### 4.1.5 Field Handbook

Pursuant to the 18 ACC 75.325(c) of the State of Alaska, this handbook will be provided to all employees. It will be a simplified discussion of the proper reporting and response procedures to follow in the event of spills in the work area and will be suitable for field use. (More detailed instructions will be located in the project Oil and Hazardous Substances Spill Contingency Plan, which will be distributed to field supervisory personnel. A comprehensive discussion of requirements will be embodied in the Environmental Manual.)

#### 4.2 CONTINUING ENVIRONMENTAL AWARENESS

The Continuing Environmental Awareness program will be a reinforcement supplement to the Environmental Orientation program. It is not a substitute for the initial Environmental Orientation. This phase of the Environmental Briefing will consist of briefings, seminars, movies, lecture/slide presentations, posters and informational pamphlets. Except for cause, participation in these program is optional and voluntary.

##### 4.2.1 Specific Environmental Orientation Sessions

Periodically, specialized sessions will be presented and based on a particular type of work related activity. An example would be aircraft restrictions which are specific only to pilots of helicopter or fixed wing aircraft. These specialized sessions would be presented in addition to the Environmental Orientation.

##### 4.2.2 Briefing Seminars

Briefing seminars will be presented for specific reasons, such as an outbreak of rabies, and normally in response to a particular localized problem. Topics can also be related to a specific type activity which could result in serious environmental impacts.

##### 4.2.3 Movies

There are many environmentally-related movies, educational or documentary, on Alaska and the arctic in general, that will be used in this program. (Attachment A is a list of potentially useful movies.) These movies will be part of the camp recreation program. Viewing will be voluntary.

##### 4.2.4 Lecture/Slide Presentation

These briefings will be developed by the Environmental Affairs staff. A slide/tape presentation format will be utilized for the

briefings in this program. This method will allow duplication of the programs and dissemination to the camps for efficient incorporation in briefings.

#### 4.2.5 Posters

Posters will be used to emphasize specific topics. One poster pertaining to feeding of carnivores has been completed and is in use. Other topics, such as oil spills, aircraft restrictions, hunting and fishing restrictions will be used.

#### 4.2.6 Informational Pamphlet

On a routine basis, pamphlets highlighting specific topic areas will be available. A wide distribution will be made on the pamphlets so that they are easily available; e.g., buses and cafeterias.

#### 4.3 REORIENTATION

Reorientation will be required for each employee at periodic intervals and will consist of mandatory attendance at the environmental reorientation. The primary purpose is to refresh and bring up to date the individual's knowledge of the environmental issues.

5.0 REFERENCES

o FOOTNOTED REFERENCES

o SELECTED BIBLIOGRAPHY

- Alaska Department of Fish and Game, Habitat Protection Section, Pipeline Surveillance Office. July 1, 1980. "Sensitive Wildlife Areas of the Northwest Alaskan Gas Pipeline Corridor."
- Alaska Department of Fish and Game. Hunting, Fishing, and Trapping Regulations.
- Alaska Statutes, Title 16 Fish and Game, September 1977.
- Federal Right-of-Way Grant, Number F-24538, Exhibit A, "Stipulations for the Alaskan Leg of the Alaska Natural Gas Transportation System."
- Fluor-Northwest, Inc. "Standard Guidelines For Preconstruction Field Programs."
- Follmann, E. H., R. A. Dietrich, J. L. Hechtel. October 1980. Recommended Carnivore Control Program for the Northwest Alaskan Pipeline Project Including a Review of Human-Carnivore Problems and Animal Deterrent Methodology. Final Report.
- Leicht, R. C. June 1980. Alaska's Cultural Resources. U.S. Department of Interior, Bureau of Land Management.



Attachment A

LIST OF POTENTIALLY USEFUL MOVIES

<u>Title or Subject</u>	<u>Source</u>
Wildlife - Ecology:	
Carnivore Feeding (TV Spot)	ADF&G
Human - Bear Encounters	ADF&G - under development
Rabies	Arctic Health Research Center
"Animals of Alaska"	U of A UF 2553,5
"Arctic Wildlife Range"	U of A UF 466,6
Caribou of Northern Canada	U of A UF 16,12
Ecology of the Arctic	U of A UF 757,23
Grizzly Bear	U of A UF 1010,33
The High Arctic Biome	U of A UF 1010,35
Life on the Tundra	U of A UF 1011,46
Living Tundra	U of A UF 366,47
Moods of the Arctic	U of A 2495,51
The Moose: our largest deer	U of A UF 2496,51
Our Largest Rodent, The Beaver in the summer	U of A AU 151,57
Polar Ecology	U of A UF 984,60
Rock Ptarmigan	U of A UF 53,65
Cry Wolf	U of A UF 131,19
Alaska Wildlife & Wildlife Management	U of A VT 59,3
Death of a Legend (Wolf documentary)	U of A UF 434
Environment	U of A UF 126,25
Fish for Alaska	U of A VT 45,28 (ADF&G)
Mt. McKinley - The Land Eternal (ecology)	U of A UF 150

Attachment A

LIST OF POTENTIALLY USEFUL MOVIES

<u>Subject and Titles</u>	<u>Source</u>
(continued)	
Wandering Through Winter	U of A UF 1020,80
Ecology of the Alpine Tundra (24 slides)	U of A S-14
Ecology of the Arctic Tundra (24 slides)	U of A S-13
Following the Tundra Wolf	U of A UF-1061
Geophysical and Construction:	
"Permafrost Frontiers"	NWA - produced by Alyeska
Men Against the Ice	U of A UF 836,50
Lights in the Northern Sky	U of A UF 3708,46
Flaming Sky (Aurora)	U of A UF 519,29
Frost Action in Alaska	U of A UF 896,31
Ice Wedges in Alaska	U of A UF 336,37
Pingos in Canada	U of A UF 337
Pipelines	U of A UF 889,59
Cultural Resources:	
"Athabascan Life, Then and Now"	U of A VT 49,7
"Ice People"	U of A UF 118,37
"Nanook of the North"	U of A UF 605,53
Alaska: The Great Land (history)	U of A UF 412,3
The Arctic: Islands of the Frozen Sea	U of A UF 3517,6
The First Americans	U of A UF 830,28

Attachment A

LIST OF POTENTIALLY USEFUL MOVIES

<u>Subject and Titles</u>	<u>Source</u>
(continued)	
Stefansson: The Arctic Prophet	U of A UF 1016,70
Alaska	U of A UF 3643,3
Alaskan Centennial	U of A UF 1,3
Alaska Goldrush	U of A UF 2619,4
Boom Times - An Alaskan Portrait	U of A UF 785,11
Fairbanks, Today and Yesterday	U of A VT 43
U of A Anthropology Dig on Alyeska Pipeline	U of A VT 124/M-3 (SA)