

EDWIN (AL) KUHN
VICE PRESIDENT
GOVERNMENT AFFAIRS

May 16, 1985

GOA-85-1034

1120-20TH STREET, N. W.
SUITE S-700
WASHINGTON, D. C. 20036
(202) 872-0280

*Rec'd 5/17/85
Doo 32707*

"BUSINESS" Information for Federal
Government Purposes in Accordance
with 10 CFR 1504 (F.R. Vol. 46, No.
240, December 15, 1981, pages 61222
through 61234)

The Honorable John T. Rhett
Federal Inspector
Alaskan Natural Gas Transportation System
1200 Pennsylvania Avenue, N.W.
Washington, DC 20044

RE: Status Summary, Stipulation 1.6.1 Plans

Dear Mr. Rhett:

Enclosed is a document entitled, Status Summary, Stipulation 1.6.1 Plans, dated May 16, 1985. It supersedes a document with the same title dated April 4, 1985, which was forwarded to you by my letter of April 9, 1985 (GOA-85-1025). The enclosure accommodates the comments on the earlier version provided by your letter of May 2, 1985 (D-0025232). We very much appreciate the review that you undertook. As a result, the document may now be viewed as a mutually agreed upon starting point for completion of the remaining Stipulation 1.6.1 plans upon remobilization.

The enclosed information is confidential/proprietary and remains the property of Alaskan Northwest Natural Gas Transportation Company, a partnership represented by Northwest Alaskan Pipeline Company. The petition attached to this letter requests the OFI to consider this material "BUSINESS" information pursuant to 10 CFR 1504. All rights are reserved to the enclosed work, and unauthorized reproduction is prohibited. This material is protected as an unpublished work under the Copyright Law of the United States, 17 USC § 101 et. seq. By copy of this letter to

Northwest Alaskan Pipeline Company
Letter, GOA-85-1034, May 16, 1985,
to Mr. John T. Rhett
Page 2

the State Pipeline Officer, the State is requested to keep this
information confidential pursuant to the Alaska Statute
38.050.035(a)(9).

Yours truly,

A handwritten signature in dark ink, appearing to read "Edwin A. Kuhn". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Edwin (Al) Kuhn

EAK:rb
Enclosures

copy w/enclosure to: Jerry Brossia, State Pipeline Officer for
the ANGTS

Enclosure to Northwest Alaskan Pipeline Company
Letter GOA-85-1034, May 16, 1985
to Hon. John T. Rhett

PETITION FOR "BUSINESS" DESIGNATION
SUBMITTED TO OFI PURSUANT TO 10 CFR PART 1504

I. The information enclosed with the above referenced Northwest Alaskan Pipeline Company (NWA) letter, qualifies for a "BUSINESS" designation on the basis that it is confidential/proprietary, commercial information, the release of which may substantially impair the competitive position of the sponsors of the Alaska gas pipeline segment of the Alaska Natural Gas Transportation System (ANGTS). NWA has incurred substantial costs to develop the information, involving several years' work and major expenditures, including both direct and indirect costs. Moreover, the sponsors do not have a final, unconditional Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission (FERC), and the information clearly would be of substantial value to anyone contemplating construction in Alaska or in similar climates and geologic regimes. Even after a final FERC certificate has been obtained, the information contained in the document submitted is of such a nature that it might be used in third-party litigation against the sponsors.

II. The OFI may contact the following named persons concerning this petition:

Mr. Edwin (Al) Kuhn
Vice President-Government Affairs
Northwest Alaskan Pipeline Company
1120 20th Street, N.W.
Washington, D.C. 20036
Phone: (202) 872-0280

Mr. William J. Moses
General Counsel
Northwest Alaskan Pipeline Company
3333 Michelson Drive
Irvine, California 92730
Phone: (714) 975-4003

STATUS SUMMARY

STIPULATION 1.6.1 PLANS

ALASKA SEGMENT

ALASKA NATURAL GAS TRANSPORTATION SYSTEM

"Business information for Federal Government purposes in accordance with 10 CFR 1504 (F.R. Vol. 46, No. 240, December, 1981, pages 61222 through 61234).

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NORTHWEST ALASKAN PIPELINE COMPANY

May 16, 1985

Status Summary
Stipulation 1.6.1 Plans

INTRODUCTION

Federal Requirements

The Department of the Interior issued a right-of-way grant, Serial #F-24538, on December 1, 1980, for the construction of a natural gas pipeline and related facilities on federal lands in the State of Alaska. Attached to and part of the grant is a list of stipulations setting forth detailed requirements to be met by the sponsors of the gas pipeline. Stipulation 1.6.1. reads as follows:

The COMPANY shall submit DESIGN CRITERIA to the FEDERAL INSPECTOR. It shall also submit comprehensive plans and/or programs (including schedules where appropriate) which shall include but not be limited to the following:

- (1) Air quality
- (2) Blasting
- (3) Camps
- (4) Clearing
- (5) Corrosion control
- (6) Cultural resource preservation
- (7) Environmental briefings
- (8) Erosion and sedimentation control
- (9) Fire control
- (10) Liquid waste management
- (11) Material exploration and extraction
- (12) OIL and HAZARDOUS SUBSTANCES control, cleanup and disposal
- (13) Overburden and excess material disposal
- (14) Pesticides, herbicides, chemicals
- (15) PIPELINE contingency
- (16) Quality assurance/quality control
- (17) Restoration
- (18) River training structures
- (19) Solid waste management
- (20) Stream, river and floodplain crossings
- (21) Surveillance and maintenance
- (22) Visual resources
- (23) WETLAND construction
- (24) Seismic
- (25) Human-carnivore interaction

These plans and programs may be combined as appropriate. The COMPANY and the FEDERAL INSPECTOR shall agree to the scope, content and schedule for submission of the requested plans and programs. Any aspects of these plans and programs or the DESIGN CRITERIA that are likely to have significant impact upon other facilities (such as the TRANS-ALASKA PIPELINE SYSTEM) will be coordinated by the COMPANY with the owners of such other facilities during their development. The COMPANY, in particular, will coordinate with the State of Alaska regarding the PIPELINE SYSTEM alignment between Delta Junction and the Canadian border with respect to the proposed realignments of the Alaska Highway between those two locations, giving due consideration to such proposed highway realignments as shown in documents provided to the COMPANY by the State, such as any Federally approved environmental impact statement for the proposed highway realignment project, the latest of any existing State reconnaissance reports, and segmented highway project design documents. Coordination means providing the facility owner an opportunity to review and comment upon relevant parts of the plans and programs. The COMPANY will reasonably take these comments into consideration. Coordination does not necessarily mean concurrence. Evidence of such coordination must be provided in support of any application for a NOTICE TO PROCEED. In determining the acceptability of the DESIGN CRITERIA and the plans, the FEDERAL INSPECTOR will consider suggestions or objections submitted by owners of affected facilities.

The purpose of this "Status Summary" is to report on progress made to date by Northwest Alaskan Pipeline Company ("NWA") in completing the 25 specifically named plans and in obtaining government approvals and coordination with Alyeska thereof.

State of Alaska Requirements

With respect to the State of Alaska, an application for a State right-of-way lease is pending; therefore, no firm state requirements for Stipulation 1.6.1. plans or similar documents currently exist. Nevertheless, it has always been understood that the State would require essentially the same, if not an identical, list of plans to be completed incident to a right-of-way lease of lands owned by the State of Alaska. Accordingly, the plans completed to date have included extensive consultation with appropriate State officials, and the plans listed noted as "final approval granted" have all received formal approval by the State of Alaska as well as the Office of the Federal Inspector ("OFI") acting for the federal government.

Most, if not all, of the State of Alaska's approvals have been qualified by language similar to the following:

Our approval however, is conditioned on the fact that State leases and certain other regulatory actions for the pipeline have not yet been completed. Therefore, their exact terms and conditions are unknown and will require formal State review and approval at a later date. Such review may require changes in N.W.A.'s planning to ensure compliance with State legal requirements. Any change made will be subject to further review and approval by the O.F.I. The State's approval herein is subject to this understanding.

Alaska Gas Conditioning Facility

The applicability of the Stipulation 1.6.1 requirements to the Alaska Gas Conditioning Facility ("AGCF") warrants special comment. The AGCF at Prudhoe Bay will be located entirely upon state-owned land. Hence, the federal right-of-way grant is not applicable to the AGCF. Moreover, the AGCF is sufficiently different in nature from the linear pipeline as to make the potential Stipulation 1.6.1 requirements by the State for the pipeline somewhat inapplicable to the AGCF. This issue was recognized and resolved by formal agreement between NWA and the State of Alaska whereby 11 of the 25 plans will be excluded from any requirements of a state right-of-way lease with respect to the AGCF. 1/

1/ In response to NWA's letter of July 19, 1982 (GOA-83-1089; Kuhn to Ott), the State Pipeline Coordinator's letter of August 20, 1982 (NWA-82-068; Ott to Kuhn) agreed that the following plans would be excluded from requirements of the State right-of-way lease for the AGCF:

- Plan #2 - Blasting;
- Plan #3 - Camps;
- Plan #4 - Clearing;
- Plan #6 - Cultural Resource Preservation;
- Plan #9 - Fire Control;
- Plan #11 - Material Exploration and Extraction;
- Plan #14 - Pesticides, Herbicides, Chemicals;
- Plan #18 - River Training Structures;
- Plan #20 - Stream, River and Floodplain Crossing;
- Plan #22 - Visual Resources; and
- Plan #23 - Wetland Construction.

Status of Plan Completion

Final approval has been received for a total of 14 of the 25 plans. Work on three others has progressed to the point of government endorsement of a detailed outline or conditional approval. This leaves a total of eight additional plans to be completed upon remobilization, for a total of 11 plans that require final government approvals.

A summary listing of the status of each of the plans is set forth on the following page, which is followed by a detailed history of Northwest Alaskan Pipeline Company's interactions with the State, OFI and Alyeska on these plans.

STATUS OF ALASKAN LEG DOI STIPULATION PLANS, 1.6.1

A. FINAL APPROVAL GRANTED:

- | | |
|-----------------------------|----------------------------|
| 1) Air Quality | 12) Oil & Hazardous |
| 2) Blasting | Substances Control, |
| 3) Camps | Cleanup & Disposal |
| 6) Cultural Resource | 14) Pesticides, Herbicides |
| Preservation | & Chemicals |
| 7) Environmental Briefings | 18) River Training |
| 10) Liquid Waste Management | Structures |
| 11) Material Exploration & | 19) Solid Waste Management |
| Extraction | 22) Visual Resources |
| | 24) Seismic |
| | 25) Human/Carnivore |
| | Interaction |
| | <u>TOTAL: 14</u> |

B. PLANS DEFERRED UNTIL REMOBILIZATION:

- ° Detailed Outlines or Conditional Approvals
 - 5) Corrosion Control
 - 8) Erosion and Sedimentation Control
 - 17) Restoration
- ° Others:
 - 4) Clearing
 - 9) Fire Control
 - 13) Overburden & Excess Material Disposal
 - 15) Pipeline Contingency
 - 16) Quality Assurance/Quality Control
 - 20) Stream, River & Floodplain Crossing
 - 21) Surveillance and Maintenance
 - 23) Wetland Construction

TOTAL: 11

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 1 Title: AIR QUALITY (joint pipeline - AGCF plan)

Sponsoring Department: Environmental (Mark Luttrell)

Initial Criteria and Outline

Submitted to OFI:	Feb. 13, 1981, GOA-81-2044 (Wuerch to Birke)
Submitted to SPCO:	Feb. 13, 1981, GOA-81-2050 (Wuerch to Behlke)
Reviewed by OFI:	May 1, 1981, ID No. R0000640 (Birke to Wuerch)
Reviewed by SPCO:	May 12, 1981, NWA-81-107 (Behlke to Kuhn)
Reviewed by Alyeska:	April 23, 1981, ANG-A81-49 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:	Aug. 12, 1982, GOA-82-2133 (Wuerch to Kari)
Submitted to SPO:	Aug. 12, 1982, GOA-82-2134 (Wuerch to Ott)
Reviewed by OFI:	Mar. 29, 1983, A0011239 (Kari to Kuhn)
Reviewed by SPO:	April 1, 1983, NWA-83-019 (Ott to Kuhn)
Reviewed by Alyeska:	Aug. 23, 1982, ANG-A82-33 (Fisher to Wuerch)
Review by NWA Legal:	Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Revised/Final Text

Submitted to OFI:	May 20, 1983, GOA-83-1071 (Kuhn to Kari)
Submitted to SPO:	May 20, 1983, GOA-83-1072 (Kuhn to Ott)
Reviewed by Alyeska:	June 1, 1983, ANG-A83-67 (Fisher to Kuhn)

Final Approval

OFI:	June 2, 1983, A0011539 (Kari to Kuhn)
SPO:	June 6, 1983, NWA-83-044 (Ott to Kuhn)

Synopsis:

The Air Quality Plan is a comprehensive plan for the control of air emissions from all project activities. The plan identifies and summarizes all applicable statutes and regulations, itemizes project sources, and describes intended emission control procedures and equipment. Portions of the EPA Prevention of Significant Deterioration (PSD) and ADEC Permits to Operate that have been issued to NWA are incorporated by reference.

Additional sections of the plan discuss temporary facilities, construction activities and mitigation measures to be implemented along the pipeline corridor and in the Fairbanks area during air quality episodes. These latter provisions of the plan will be implemented through the various site-specific permits that must be obtained prior to construction (i.e., air quality permits for incinerator emissions, fugitive dust, etc.). Applications for these permits will be included with application for Authorization-to-Proceed (ATP) for temporary facilities or with application for Notice-to-Proceed (NTP) for permanent facilities.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 2 Title: BLASTING (not required for AGCF)

Sponsoring Department: Construction (R.N. Hauser)

Initial Criteria and Outline

Submitted to OFI:	Feb. 13, 1981, GOA-81-2045 (Wuerch to Black)
Submitted to SPCO:	Feb. 13, 1981, GOA-81-2051 (Wuerch to Behlke)
* Reviewed by OFI:	May 21, 1981, No. R0000761 (Birke to Wuerch)
Reviewed by SPCO:	

Draft Narrative Text

Submitted to OFI:	Aug. 6, 1981, GOA-81-2274 (Wuerch to Black)
Submitted to SPO:	Aug. 6, 1981, GOA-81-2275 (Wuerch to Behlke)
Reviewed by OFI:	Nov. 24, 1981, ID R0001526 (Black to Wuerch)
Reviewed by SPO:	Dec. 18, 1981, NWA-81-236 (Behlke to Kuhn)
Reviewed by Alyeska:	Sept. 29, 1981, ANG-A81-110 (Fisher to Behlke)

Revised Text

Submitted to OFI:	July 21, 1983, GOA-83-1102 (Kuhn to Kari)
Submitted to SPO:	July 21, 1983, GOA-83-1103 (Kuhn to Ott)
Reviewed by Alyeska:	Aug. 8, 1983, ANG-A83-83 (Fisher to Kuhn)

Final Text

Submitted to OFI:	Oct. 25, 1983, GOA-83-1123 (Kuhn to Kari)
Submitted to OFI:	Oct. 25, 1983, GOA-83-1124 (Kuhn to Ott)

Final Approval

OFI:	Nov. 15, 1983, A0011612 (Kari to Kuhn)
SPO:	Feb. 12, 1985 (Brossia to Kuhn)

Synopsis:

The Blasting Plan will continue as a "stand-alone" document similar to the initial draft. The essence of this plan is the blasting procedure jointly developed with Alyeska for protection of TAPS; further, the plan refers to subsequent documents such as construction specifications and contractor blasting plans that will be submitted to the OFI prior to initiation of field work. It is intended that these later documents will furnish the detailed information Alyeska and agency representatives have requested.

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 3 Title: CAMPS (not required for AGCF)

Sponsoring Department: Construction (R.N. Hauser)

Detailed Table of Contents Outline

Submitted to OFI: Dec. 15, 1980, GOA-80-2270 (Wuerch to Kuhn)

Initial Criteria and Outline

Submitted to OFI: June 3, 1981, GOA-81-2210 (Wuerch to Sizemore)
Submitted to SPCO: June 3, 1981, GOA-81-2211 (Wuerch to Behlke)
Reviewed by OFI: July 17, 1981, OFI-A-0000580 (Sizemore to Wuerch)
Reviewed by SPCO: August 8, 1981, NWA-81-169 (Behlke to Kuhn)
Reviewed by Alyeska: July 10, 1981, ANG-A81-85 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI: March 26, 1982, GOA-82-2076 (Wuerch to Matthews)
Submitted to SPO: March 26, 1982, GOA-82-2077 (Wuerch to Behlke)
Reviewed by Alyeska: August 11, 1982, ANG-A82-32 (Fisher to Kari)

Final Text

Submitted to OFI: April 20, 1983, GOA-82-2095 (Wuerch to Kari)
Submitted to SPCO: April 20, 1982, GOA-82-2094 (Wuerch to Behlke)
Submitted to Alyeska: May 3, 1982, GOA-82-2100 (Wuerch to McPhail)
Reviewed by Alyeska: June 1, 1982, ANG-A82-26 (Fisher to Behlke)
Review by NWA Legal: Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Final Approval

OFI (contingent on revisions): June 16, 1982, OFI-A0011054 (Kari to Wuerch)
SPO: June 17, 1982, NWA-82-061 (Behlke to Kuhn)

Final Revisions

Submitted to OFI: July 12, 1982, GOA-82-2117 (Wuerch to Kari)
Submitted to SPO: July 12, 1982, GOA-82-2118 (Wuerch to Ott)

Synopsis:

On April 7 and 8, 1982, a meeting was held in Irvine with representatives from OFI, SPCO and NWA that reached agreement on changes to Plan #3, Camps, that were considered "approvable." Subsequent corrections, transmitted to OFI and SPCO on July 12, 1982, by NWA letters GOA-82-2117 and 2118, respectively, conformed the text to the final requirements identified in the government's approval letters cited above. This plan is now final and approved.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 4 Title: CLEARING (not required for AGCF)

Sponsoring Department: Engineering (Nils Hetland)

Initial Criteria and Outline

Submitted to OFI: April 23, 1981, GOA-81-2159 (Wuerch to Coan)
Submitted to SPCO: April 23, 1981, GOA-81-2160 (Wuerch to Behlke)
Reviewed by OFI: July 9, 1981, OFI-A-0000674 (Sizemore to Wuerch)
Reviewed by SPCO: July 15, 1981, NWA-81-154 (Behlke to Kuhn)
Reviewed by Alyeska: June 5, 1981, ANG-A81-71 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:
Submitted to SPO:
Approved by OFI:
Approved by SPO:

Revised Text

Submitted to OFI&SPO: Jan. 18, 1984, GOA-84-1005 (Kuhn to Kari & Brossia)
Reviewed by OFI: June 20, 1984, A0011711 (Kari to Watts)
Reviwed by SPO: June 5, 1984 (Brossia to Kari)
SPO review forwarded: June 20, 1984, A0011711 (Kari to Watts)

Synopsis:

Section 10 of Pipeline Design Criteria Manual, "Clearing" contains the project criteria and is, therefore, incorporated by reference. For detailed design and environmental issues, reference is made to the Pipeline Design Packages, including Mile-by-Mile design drawings. For the clearing plan implementation, reference is made to the NTPA's, the construction specifications and execution contractor's work plan.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 5 Title: CORROSION CONTROL (joint pipeline - AGCF plan)

Sponsoring Department: Engineering (Nils Hetland)

Initial Criteria and Outline

Submitted to OFI: Feb. 13, 1981, GOA-81-2061 (Wuerch to Black)
Submitted to SPCO: Feb. 13, 1981, GOA-81-2062 (Wuerch to Behlke)
* Reviewed by OFI: April 30, 1981, #R-0000635 (Black to Wuerch)
Reviewed by SPCO:

Draft Narrative Text

Submitted to OFI: Aug. 4, 1981, GOA-81-2241 (Wuerch to Black)
Submitted to SPO: Aug. 4, 1981, GOA-81-2242 (Wuerch to Behlke)
Missing figure to OFI: Aug. 13, 1981, GOA-81-2285 (Wuerch to Black)
Missing figure to SPO: Aug. 13, 1981, GOA-81-2287 (Wuerch to Behlke)
Approved by OFI:
Approved by SPO: Dec. 7, 1981, NWA-81-230 (Behlke to Kuhn)
Reviewed by Alyeska: Sept. 11, 1981, ANG-81-103 (Fisher to Behlke)

AGCF Revised Plan

NWA company memo: Jan. 11, 1983 (McNeil to Kuhn)
Submitted to OFI: Jan. 18, 1983, GOA-83-1008 (Kuhn to Black)
Submitted to SPO: Jan. 18, 1983, GOA-83-1009 (Kuhn to Ott)
* Reviewed by Alyeska: Feb. 22, 1983, ANG-A83-14 (Fisher to Ott)

Final Text

Submitted to OFI&SPO: Jan. 18, 1984, GOA-84-1007 (Kuhn to Kari & Brossia)
Reviewed by SPO: June 5, 1984 (Brossia to Kari)
SPO review forwarded: June 20, 1984, A0011711 (Kari to Watts)

Final Approval

OFI (contingent): June 20, 1984, A0011710 (Kari to Kuhn)

Synopsis:

Section 30 of Pipeline Design Criteria manual, "Corrosion Control," contains the project criteria and is, therefore, incorporated by reference. For detailed design issues, further reference is made to the Pipeline Design Packages, including Mile-by-Mile design drawings. For the installation plan, reference is made to the NTPA's, construction specifications and execution contractors work plan. The corrosion control monitoring and inspection will be covered in the Operations and Maintenance plan, and reference will be made to this plan. Corrosion control for the AGCF is contained in Design Review Package No. 2, sheets found in the other review packages, Nos. 3, 4, and 5.

By letter of June 5, 1984 (Brossia to Kari), the State said: "We have no substantive comment on this plan and recommend that the document as submitted be approved."

By letter A0011710 dated June 20, 1984, OFI approved the plan "on the condition that: 1) NWA submit documents in accordance with 49 CFR 92 relating to resistance and detection of corrosion, and 2) NWA submit Plan #21.

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 6 Title: CULTURAL RESOURCE PRESERVATION (not required for AGCF)

Sponsoring Department: Environmental (Mike Sotak)

Initial Criteria and Outline

- * Submitted to OFI: March 25, 1981, GOA-81-2115 (Wuerch to Birke)
- * Submitted to SPCO: March 26, 1981, GOA-81-2116 (Wuerch to Behlke)
- Reviewed by OFI: June 4, 1981, OFI-A-0000512 (Birke to Wuerch)
- Reviewed by SPCO: July 15, 1981, NWA-81-152 (Behlke to Kuhn)
- * Reviewed by Alyeska: April 9, 1981, ANG-A81-36 (Fisher to Wuerch)

Draft Narrative Text

Submitted to OFI: Sept. 17, 1982, GOA-82-2167 (Wuerch to Kari)
Submitted to SPO: Sept. 17, 1982, GOA-82-2168 (Wuerch to Ott)
Reviewed by Alyeska: Sept. 22, 1982, ANG-A82-39 (Fisher to Wuerch)

Final Approval

OFI (with exception): April 22, 1983, A0011243 (Kari to Kuhn)
SPO: April 26, 1983, NWA-83-034 (Ott to Kuhn)

Synopsis:

The Cultural Resource Preservation Plan adopts the Advisory Council on Historic Preservation (ACHP) memorandum of Agreement of December 8, 1980 and the OFI Pipeline Salvage Plan 28 accepted by ACHP on February 10, 1982, with some elaboration and qualifications. The adoption of these documents allows for uniformity in applying protection to cultural resources to preclude negative impacts to significant resources by avoidance. Where avoidance is not possible, the preservation of significant data will be assured by completion of approved surveys and construction mitigation action. The primary objective is to schedule surveys so that surface resource clearance is completed prior to field entry.

By letter A0011243 dated April 22, 1983, OFI approved the plan with the exception of Attachment C, Statement of Intent/Interpretation.

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 7 Title: ENVIRONMENTAL BRIEFINGS (joint pipeline - ACGF plan)

Sponsoring Department: Environmental (Mike Sotak)

Initial Criteria and Outline

Submitted to OFI:	Feb. 18, 1981, GOA-81-2069 (Wuerch to Birke)
Submitted to SPCO:	Feb. 18, 1981, GOA-81-2070 (Wuerch to Behlke)
Reviewed by OFI:	April 17, 1981 (Birke to Wuerch)
Reviewed by SPCO:	May 5, 1981, NWA-81-97 (Behlke to Kuhn)
Reviewed by Alyeska:	April 21, 1981, ANG-A81-47 (Fisher to Wuerch)

Draft Narrative Text

Submitted to OFI:	Oct. 15, 1982, GOA-82-2184 (Wuerch to Kari)
Submitted to SPO:	Oct. 15, 1982, GOA-82-2185 (Wuerch to Ott)
Reviewed by OFI:	April 21, 1983, A0011213 (Kari to Kuhn)
Reviewed by SPO:	April 25, 1983, NWA-83-028 (Ott to Kuhn)
Reviewed by Alyeska:	Nov. 12, 1982, ANG-A82-51 (Fisher to Wuerch)
Review by NWA Legal:	Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Final/Revised Plan

Submitted to OFI:	May 20, 1983, GOA-83-1071 (Kuhn to Ott)
Submitted to SPO:	May 20, 1983, GOA-83-1072 (Kuhn to Kari)
Reviewed by Alyeska:	June 1, 1983, ANG-A83-67 (Fisher to Kuhn)

Final Approval

OFI:	May 31, 1983, A0011535 (Kari to Kuhn)
SPO:	June 2, 1983, NWA-83-038 (Ott to Kuhn)

Synopsis:

The Environmental Briefing Plan, published as a "stand alone" document, ensures that adequate environmental information is provided to supervisory and field personnel as a means of assuring adherence to prescribed environmental standards. Initially, each employee is required to attend an Environmental Orientation. This will be followed by a Continuing Environmental Awareness program which will be aimed at reinforcing and adding to the initial exposure. At periodic intervals, or when a situation warrants, a reorientation program will be required.

By letter A0011535, dated May 31, 1983, OFI approved the plan and pointed out that "we consider the topical outline presented in Section 4.0 to be a working outline. This outline will be refined with governmental concurrence during the subsequent development of NWA's environmental briefing program."

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 8 Title: EROSION AND SEDIMENTATION CONTROL
(joint pipeline - AGCF plan)

Sponsoring Department: Engineering (John Watts)

Initial Criteria and Outline

Submitted to OFI:	April 23, 1981, GOA-81-2161 (Wuerch to Coan)
Submitted to SPCO:	April 23, 1981, GOA-81-2162 (Wuerch to Behlke)
Reviewed by OFI:	July 2, 1981, OFI-A-0000560 (Sizemore to Wuerch)
Reviewed by SPCO:	July 10, 1981, NWA-81-146 (Behlke to Kuhn)
Reviewed by Alyeska:	June 5, 1981, ANG-A81-71 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:	Nov. 24, 1982, GOA-82-2004 (Wuerch to Kari)
Submitted to SPO:	Nov. 24, 1982, GOA-82-2005 (Wuerch to Ott)
Review by Legal:	Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)
Reviewed by OFI:	June 15, 1983, A0011517 (Kari to Kuhn)
Reviewed by SPO:	June 16, 1983, NWA-83-050 (Ott to Kuhn)
Reviewed by Alyeska:	Jan. 18, 1983, ANG-A83-03 (Fisher to Ott)

Clarification and Identification of Future Documents

Submitted to OFI:	Nov. 8, 1983, GOA-83-1129 (Kuhn to Kari)
Reviewed by OFI:	Nov. 22, 1983, A0011616 (Kari to Kuhn)

Synopsis:

Section 11 of Pipeline Design Criteria Manual, "Drainage and Erosion Control," contains the design criteria and is therefore incorporated by reference. Additionally a separate Erosion Control Procedures Manual will be prepared and submitted for government review subsequent to project remobilization in accordance with the discussion in NWA's letter to OFI of November 8, 1983 (Kuhn to Kari, GOA-83-1129). Generally, it will provide: (1) recognition of problem areas, (2) requisite field data and conditions for problem evaluation, (3) alternate generic or site-specific designs available for mitigation, (4) construction methods which may resolve the problem, (5) guidelines to be followed and sample calculations, and (6) final field implementation.

For detailed design and environmental issues, reference is made to the Pipeline Design packages, including Mile-by-Mile design drawings, NTPA's, construction specifications and execution contractor work plans. For the AGCF, design review packages No. 2 "Design Criteria" and No. 5 "Site Development/Civil Construction" provide requisite detail to be incorporated by reference.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 9 Title: FIRE CONTROL (not required for AGCF)

Sponsoring Department: Construction (Bob Hauser)

Initial Criteria and Outline

Submitted to OFI:	Feb. 13, 1981, GOA-81-2046 (Wuerch to Coan)
Submitted to SPCO:	Feb. 13, 1981, GOA-81-2052 (Wuerch to Behlke)
Reviewed by OFI:	April 29, 1981 (Coan to Wuerch)
Reviewed by SPCO:	July 18, 1981, NWA-81-156 (Behlke to Kuhn)
Reviewed by Alyeska:	April 9, 1981, ANG-A81-34 (Fisher to Wuerch)
Reviewed by Alyeska:	April 23, 1981, ANG-A81-49 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:
Submitted to SPO:
Reviewed by OFI:
Reviewed by SPO:
Reviewed by Alyeska:

Synopsis:

Fire Control will be a "stand alone" document that will express overall project concepts and strategies in this area. Detailed contractor requirements will be established from these concepts and incorporated into the bid documents for the project. No additional work is scheduled on this plan until after project remobilization.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 10 Title: LIQUID WASTE MANAGEMENT (joint pipeline - AGCF plan)

Sponsoring Department: Environmental (Mark Luttrell)

Initial Criteria and Outline

Submitted to OFI:	April 7, 1981, GOA-81-2135 (Wuerch to Birke)
Submitted to SPCO:	April 7, 1981, GOA-81-2136 (Wuerch to Behlke)
Reviewed by OFI:	June 4, 1981, ID No. R0000845 (Birke to Wuerch)
Reviewed by SPCO:	July 18, 1981, NWA-81-157 (Behlke to Kuhn)
Reviewed by Alyeska:	April 23, 1981, ANG-A81-48 (Fisher to Wuerch)

Draft Narrative Text

Submitted to OFI:	Aug. 25, 1982, GOA-82-2145 (Wuerch to Kari)
* Submitted to SPO:	Aug 25, 1982, GOA-82-2146 (Wuerch to Ott)
OFI draft review:	May 13, 1983, A0011522 (Kari to Sotak)
Reviewed by OFI:	June 15, 1983, A0011516 (Kari to Kuhn)
Reviewed by SPO:	June 16, 1983, NWA-83-051 (Ott to Kuhn)
Reviewed by Alyeska:	Sept. 2, 1982, ANG-A82-35 (Fisher to Wuerch)
Review by NWA Legal:	Nov. 23, 1982, LEG-82-0243 (Moses to Kuhn)

Final/Revised Plan

Submitted to OFI:	Sept. 12, 1983, GOA-83-1116 (Kuhn to Kari)
Submitted to SPO:	Sept. 12, 1983, GOA-83-1117 (Kuhn to Ott)

Final Approval

OFI:	Nov. 17, 1983, A0011615 (Kari to Kuhn)
SPO:	Feb. 12, 1985 (Brossia to Kuhn)

Synopsis:

The Liquid Waste Management Plan is a comprehensive plan for the collection, treatment and disposal of nonhazardous liquid wastes generated during the construction and operation of the Alaska Segment pipeline and AGCF. Liquid waste covered in the plan includes both point sources (e.g., domestic sewage and spent hydrostatic test water) and nonpoint sources (e.g., storm water and snow melt runoff) generated at camps and permanent facilities and along the right-of-way. The plan identifies liquid waste sources, provides destination and generation rates, and describes conceptual management methods. Hazardous liquid wastes are covered in Stip. Plan #12 "Oil and Hazardous Substances." Further detail on liquid waste facilities will be found in the AGCF design review package No. 6 "Support Facilities," or Stip. Plan #3 "Camps" for pipeline construction camps.

By letter A0011615, dated November 17, 1983, OFI approved the plan with the expectation that "remaining questions relative to who would be responsible, for example, for scheduling and obtaining the necessary permits would be addressed when NWA's overall management plan is completed prior to remobilization."

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 11 Title: MATERIAL EXPLORATION AND EXTRACTION
(not required for the AGCF)

Sponsoring Department: Engineering (Morris Fraley)

Initial Criteria and Outline

Submitted to OFI:	April 23, 1981, GOA-81-2165 (Wuerch to Black)
Submitted to SPCO:	April 23, 1981, GOA-81-2166 (Wuerch to Behlke)
Reviewed by OFI:	July 28, 1981, A-0000737 (Sizemore to Wuerch)
Reviewed by SPCO:	July 30, 1981, NWA-81-162 (Behlke to Kuhn)
Reviewed by Alyeska:	June 5, 1981, ANG-A81-71 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:	Nov. 5, 1982, GOA-82-2194 (Wuerch to Kari)
Submitted to SPO:	Nov. 5, 1982, GOA-82-2195 (Wuerch to Ott)
Reviewed by OFI:	Dec. 10, 1982, A0011169 (Kari to Sotak)
Reviewed by SPO:	
Reviewed by Alyeska:	Jan. 19, 1983, ANG-A83-05 (Fisher to Ott) (Interim)
Review by NWA Legal:	Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Revised Narrative Text

Submitted to OFI:	Feb. 17, 1983, GOA-83-1025 (Kuhn to Kari)
Submitted to SPO:	Feb. 17, 1983, GOA-83-1026 (Kuhn to Ott)
Reviewed by OFI:	April 28, 1983, A0011501 (Kari to Kuhn)
Reviewed by SPO:	May 2, 1983, NWA-83-036 (Ott to Kuhn)
Reviewed by Alyeska:	

Final Text

Submitted to OFI:	June 9, 1983, GOA-83-1083 (Kuhn to Kari)
Submitted to SPO:	June 9, 1983, GOA-83-1084 (Kuhn to Ott)
Reviewed by Alyeska:	June 22, 1983, ANG-A83-75 (Fisher to Kuhn)

Final Approval

OFI	June 14, 1983, A0011550 (Kari to Kuhn)
SPO	June 16, 1983, NWA-83-049 (Ott to Kuhn)

Synopsis:

The Material Exploration and Extraction Plan was written as a "stand alone" document encompassing the information currently in Section 5 of the DCM relating to siting, together with other information previously reviewed with government representatives regarding material site development and operations, including information on spoil disposal from these sites. Section 5 of the DCM, when revised, was to have only an introduction to this subject and a cross reference to Stipulation Plan #11.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 12 Title: OIL AND HAZARDOUS SUBSTANCES CONTROL, CLEANUP AND DISPOSAL (joint pipeline - ACGF plan)

Sponsoring Department: Environmental (Mark Luttrell)

Initial Criteria and Outline - None published

Draft Narrative Text

Submitted to OFI: Feb. 13, 1981, GOA-81-2065 (Wuerch to Birke)
Submitted to SPO: Feb. 13, 1981, GOA-81-2066 (Wuerch to Behlke)
* Reviewed by OFI: May 1, 1981, ID #R0000643 (Birke to Wuerch)
Reviewed by SPO: June 5, 1981, NWA-81-129 (Behlke to Kuhn)
* Reviewed by Alyeska: March 11, 1981, ANG-A81-8 (Fisher to Wuerch)
Reviewed by Alyeska: April 23, 1981, ANG-A81-49 (Fisher to Behlke)

Revised Narrative Text

Submitted to OFI: Nov. 15, 1982, GOA-82-2199 (Wuerch to Kari)
Submitted to SPO: Nov. 15, 1982, GOA-82-2200 (Wuerch to Ott)
Reviewed by OFI: April 21, 1983, A0011246 (Kari to Kuhn)
Reviewed by SPO: April 25, 1983, NWA-83-029 (Ott to Kuhn)
Reviewed by Alyeska: Dec. 8, 1982, ANG-A82-60 (Fisher to Kari)
OFI to Alyeska: Dec. 17, 1982, A0011178 (Kari to Fisher)
Review by NWA Legal: Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Final Text

Submitted to OFI: May 20, 1983, GOA-83-1071 (Kuhn to Kari)
Submitted to SPO: May 20, 1983, GOA-83-1072 (Kuhn to Ott)
Reviewed by Alyeska: June 1, 1983, ANG-A83-67 (Fisher to Kuhn)

Final Approval

OFI (contingent): June 2, 1983, OFI-A0011536 (Kari to Kuhn)
SPO: June 6, 1983, NWA-83-045 (Ott to Kuhn)

Synopsis:

The Oil and Hazardous Substances Plan has a twofold function: (1) to describe the organization and content of the major documents that the project will use to manage oil and hazardous substances; and (2) to disclose certain engineering concepts that are under consideration as control measures, so that their acceptability to the agencies can be determined before detailed design begins. The plan addresses both pipeline and ACGF facilities. Work on the subsequent documents identified in the plan will be deferred until project remobilization.

By letter A0011536 dated June 2, 1983, OFI approved the plan "as an overall management document" and conditioned final approval upon submission and approval of specified supporting documents: 1) Oil Discharge Contingency Plan(s), (2) Spill Prevention, Control and Countermeasures Plan(s), 3) Oil and Hazardous Substances Spill Control Plan, and 4) Petroleum handling Procedures Manual.

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 13 Title: OVERBURDEN AND EXCESS MATERIAL DISPOSAL
(joint pipeline - AGCF plan)

Sponsoring Department: Engineering (Morris Fraley)

Initial Criteria and Outline

Submitted to OFI:	April 23, 1981, GOA-81-2163 (Wuerch to Black)
Submitted to SPCO:	April 23, 1981, GOA-81-2164 (Wuerch to Behlke)
Reviewed by OFI:	July 6, 1981, Doc. #R0000982 (Black to Wuerch)
Reviewed by SPCO:	July 18, 1981, NWA-81-158 (Behlke to Kuhn)
Reviewed by Alyeska:	June 5, 1981, ANG-A81-71 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:	Nov. 5, 1982, GOA-82-2192 (Wuerch to Kari)
Submitted to SPO:	Nov. 5, 1982, GOA-82-2193 (Wuerch to Ott)
Review by NWA Legal:	Nov. 23, 1983, LEG-82-2043 (Moses to Kuhn)
Draft review by OFI:	May 13, 1983, A0011522 (Kari to Sotak)
Reviewed by OFI:	June 15, 1983, A0011518 (Kari to Kuhn)
Reviewed by SPO:	June 16, 1983, NWA-83-052 (Ott to Kuhn)
Reviewed by Alyeska:	Dec. 17, 1982, ANG-A82-66 (Fisher to Ott)

Synopsis:

"Overburden and Excess Material" is addressed in the pipeline DCM, primarily in Section 6. The title of Section 6 will be revised to "Spoil Disposal" to more clearly identify the contents. The 1.6.1. Plan will, essentially, introduce the subject and refer to DCM Section 6 and other DCM sections, if appropriate, which NWA believes should also cover the Stipulation 1.6.1 requirement. Solid waste disposal will not be addressed in either the pipeline DCM or this 1.6.1 Plan but will be fully treated in Plan 19, Solid Waste Management. For the AGCF there will be a reference to Design Review Package No. 5, "Site Development/Civil Construction."

As discussed in OFI's letter of June 15, 1983, listed above, the plan should specifically address the following subjects: (1) the specific permit requirements for both Federal and State lands, (2) siting criteria for on and off right-of-way disposal sites, and (3) the handling and temporary stockpiling of ditch spoils.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 14 Title: PESTICIDES, HERBICIDES AND CHEMICALS
(not required for the AGCF)

Sponsoring Department: Environmental (Mark Luttrell)

Initial Criteria and Outline - None published

Draft Narrative Text

Submitted to OFI: Feb. 13, 1981, GOA-81-2059 (Wuerch to Birke)
Submitted to SPO: Feb. 13, 1981, GOP-81-2060 (Wuerch to Behlke)
* Reviewed by OFI: April 29, 1981, ID #R0000619 (Birke to Wuerch)
* Reviewed by SPO: June 5, 1981, NWA-81-129 (Behlke to Kuhn)
* Reviewed by Alyeska: March 25, 1981, ANG-A81-23 (Fisher to Wuerch)
Reviewed by Alyeska: April 23, 1981, ANG-A81-49 (Fisher to Behlke)

Revised Narrative Text

Submitted to OFI: Dec. 7, 1982, GOA-82-2211 (Wuerch to Kari)
Submitted to SPO: Dec. 7, 1982, GOA-82-2212 (Wuerch to Ott)
Reviewed by OFI: April 21, 1983, A0011245 (Kari to Kuhn)
Reviewed by SPO: April 25, 1983, NWA-83-030 (Ott to Kuhn)
Reviewed by Alyeska: Jan. 4, 1983, ANG-A83-01

Final Text

Submitted to OFI: May 20, 1983, GOA-83-1071 (Kuhn to Kari)
Submitted to SPO: May 20, 1983, GOA-83-1072 (Kuhn to Ott)
Reviewed by Alyeska: June 1, 1983, ANG-83-67 (Fisher to Kuhn)

Final Approval

OFI: June 1, 1983, A0011540 (Kari to Kuhn)
SPO: June 2, 1983, NWA-83-039 (Ott to Kuhn)

Errata Corrections

Submitted to OFI: June 8, 1983, GOA-83-1079 (Kuhn to Kari)
Submitted to SPO: June 8, 1983, GOA-83-1080 (Kuhn to Ott)

Synopsis:

This plan addresses the use of pesticides. No herbicides will be used on the Alaska segment of the ANGTS, including the AGCF. Hazardous chemicals are addressed in Plan #12, "Oil and Hazardous Substances." The plan sets forth an effective program for the control of aggravating insect pests while protecting public health, safety and the environment. The term "chemicals" as used in the required title of this plan is interpreted to mean only those substances that are to be intentionally broadcast to the environment in the same manner as pesticides and herbicides. Soil stabilizers and dust palatives are assumed to be in this category. The plan establishes a procedure wherein contractors must notify NWA and obtain an approval before such substances can be used. Specific compounds are not identified at this time.

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 15 Title: PIPELINE CONTINGENCY (a separate plan will be prepared for the AGCF)

Sponsoring Department: Engineering (Nils Hetland)

Initial Criteria and Outline

Submitted to OFI: May 7, 1981, GOA-81-2187 (Wuerch to Black)
Submitted to SPCO: May 7, 1981, GOA-81-2188 (Wuerch to Behlke)
* Reviewed by OFI: Oct. 28, 1981, ID R-0001442 (Black to Wuerch)
Reviewed by SPCO:
Reviewed by Alyeska: June 22, 1981, ANG-A81-77 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:
Submitted to SPO:
Reviewed by OFI:
Reviewed by SPO:
Reviewed by Alyeska:

Synopsis:

NWA will prepare a Pipeline Operations and Maintenance plan which will address programs and procedures necessary to contain and resolve emergency situations that may arise during the operation of ANGTS. A similar plan will be prepared for the AGCF. These two plans will constitute 1.6.1 plans for their respective facilities. Work on these plans will be deferred until project remobilization and then will likely be undertaken during the construction phase, just prior to commissioning. This timing was concurred in by the SPO in his letter to NWA on August 26, 1982. *

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 16 Title: QUALITY ASSURANCE/QUALITY CONTROL
(separate plan required for AGCF)

Sponsoring Department: QA/QI (Jim Bensko)

Initial Criteria and Outline

Submitted to OFI: Feb. 13, 1981, GOA-81-2047 (Wuerch to Coan)
Submitted to SPCO: Feb. 13, 1981, GOA-81-2053 (Wuerch to Behlke)
Reviewed by OFI: May 29, 1981, A0000354 (Sizemore to Wuerch)
Reviewed by Alyeska: April 23, 1981, ANG-A81-49 (Fisher to Behlke)

Initial Criteria and Outline (Revised)

Submitted to OFI: July 17, 1981, GOA-81-2259 (Wuerch to Sizemore)
Submitted to SPCO: July 14, 1981, GOA-81-2260 (Wuerch to Behlke)
Reviewed by OFI: Nov. 27, 1981, F-0000207 (Toskey to Stevens)
Reviewed by SPCO: Dec. 7, 1981, NWA-81-229 (Behlke to Kuhn)
Reviewed by Alyeska: Aug. 31, 1981, ANG-A81-100 (Fisher to Richardson)
NWA company memo: Oct. 12, 1981, QA-81-2318 (Stevens to Mackay)

Draft Narrative Text

Submitted to OFI:
Submitted to SPO:
Reviewed by OFI:
Reviewed by SPO:
Reviewed by Alyeska:

Synopsis:

The QA/QC plan incorporates by reference the pipeline Quality Assurance Program Manual (QAPM). A similar reference will be prepared and cited for the AGCF. Basic QA/QI methodology along with authorities, responsibilities, and interfaces are identified in the QAPM. The scope, purpose and implementation of the quality assurance program (which includes Quality Inspection) as described in the QAPM, provide confidence/assurance through independent assessment, inspection and verification that pipeline system design, procurement, construction, operation, maintenance and termination conform with the approved design, environmental concerns, proximity to TAPS, stipulations, regulations, standards, codes and permit requirements. Further work on this plan was to be deferred until remobilization.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 17 Title: RESTORATION (joint pipeline - AGCF plan)

Sponsoring Department: Environmental (Mike Sotak)

Initial Criteria and Outline

Submitted to OFI:	June 5, 1981, GOA-81-2216 (Wuerch to Birke)
Submitted to SPCO:	June 5, 1981, GOA-81-2217 (Wuerch to Behlke)
Reviewed by OFI:	Aug. 14, 1981, OFI-A-0000834 (Kari to Wuerch)
Reviewed by SPCO:	Aug. 19, 1981, NWA-81-176 (Behlke to Kuhn)
Reviewed by Alyeska:	July 1, 1981, ANG-A81-80 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:	Aug. 30, 1982, GOA-82-2151 (Wuerch to Kari)
Submitted to SPO:	Aug. 30, 1982, GOA-82-2150 (Wuerch to Ott)
Reviewed by OFI:	Oct. 20, 1982, OFI-A0011154 (Kari to Wuerch)
Reviewed by SPO:	Oct. 20, 1982, NWA-82-076 (Ott to Kuhn)
Reviewed by Alyeska:	Oct. 29, 1982, ANG-A82-46 (Fisher to Ott)
Review by NWA Legal:	Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Draft Outline

Submitted to OFI:	April 11, 1983, GOA-83-1052 (Kuhn to Kari)
Submitted to SPO:	April 10, 1983, GOA-83-1053 (Kuhn to Ott)
Reviewed by OFI:	June 2, 1983, A0011545 (Kari to Kuhn)
Reviewed by SPO:	June 6, 1983, NWA-83-046 (Ott to Kuhn)
Reviewed by Alyeska:	April 26, 1983, ANG-A83-53 (Fisher to Kuhn)
Submitted to North Slope Bor. by SPO:	April 19, 1983, GEN-83-007 (Ott to Brower)

Synopsis:

In conjunction with the Pipeline DCM, Section 12, "Restoration," this plan describes the criteria and methodology of the restoration program. The primary goal will be to encourage reestablishment of native plant communities, but alternative goals include site stabilization, wildlife and fish habitat rehabilitation and/or reduction of visual impacts, as determined by site conditions. Restoration activities will begin immediately as construction is completed. All disturbed areas will be subject to restoration evaluation and treatment.

By letter of April 11, 1983, NWA provided a detailed outlined of the plan which was concurred in by OFI's letter of June 2, 1983. This outline was developed and jointly agreed to by NWA, OFI and the State of Alaska following extensive negotiations among all parties. It should also be noted that pipeline DCM #12, Restoration, was approved with the full understanding and agreement of what was to be subsequently included in Plan #17, as the two are complimentary documents.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 18 Title: RIVER TRAINING STRUCTURES
(not required for the AGCF)

Sponsoring Department: Engineering (John Watts)

Initial Criteria and Outline

Submitted to OFI: April 24, 1981, GOA-81-2167 (Wuerch to Black)
Submitted to SPCO: April 24, 1981, GOA-81-2168 (Wuerch to Behlke)
Reviewed by OFI: June 22, 1981 (Black to Wuerch)
Reviewed by SPCO: July 30, 1981, NWA-81-164 (Behlke to Kuhn)
Reviewed by Alyeska: May 13, 1981, ANG-A81-60 (Fisher to Wuerch)

Draft Narrative Text

Submitted to OFI:
Submitted to SPO:
Reviewed by OFI:
Reviewed by SPO:
* Reviewed by Alyeska: Oct. 29, 1982, ANG-A82-47 (Fisher to Ott)

Final/Revised Text

Submitted to OFI&SPO: Jan. 18, 1984, GOA-84-1006 (Kuhn to Kari & Brossia)
Reviewed by SPO: June 5, 1984 (Brossia to Kari)
SPO review forwarded: June 20, 1984, A0011711 (Kari to Watts)
Response to OFI&SPO: Oct. 17, 1984, GOA-84-1067 (Kuhn to Kari & Brossia)
Additional to OFI&SPO: Dec. 14, 1984, GOA-84-1075 (Kuhn to Kari & Brossia)

Final Approval

OFI: Jan. 25, 1985, A0011768 (Kari to Kuhn)
SPO: Feb. 12, 1985 (Brossia to Kuhn)

Synopsis:

Section 16 of Pipeline Design Criteria Manual, "River, Stream and Wetland Crossings," contains the project criteria and is therefore incorporated by reference. For detailed design and environmental issues, reference is made to the Pipeline Design Packages, including Mile-by-Mile design drawings. For the river training structures plan and implementation, reference is made to the NTPA's, the construction specifications and execution contractors work plan.

A compendium of pipeline design criteria providing for fish passage at river training structures was submitted to OFI/SPO by NWA's letter of December 14, 1984. (The existence of adequate criteria for this purpose was an issue with the State, but was resolved by submitting this information.) OFI approval was conditioned on making the compendium part of the plan^{1/}

*Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

^{1/} Compendium dated Oct. 17, 1984, revised Dec 14, 1984; See ltr. to OFI/SPO of Dec 14, 1984, GOA-84-1075.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 19 Title: SOLID WASTE MANAGEMENT (joint pipeline - AGCF plan)

Sponsoring Department: Environmental (Mark Luttrell)

Initial Criteria and Outline

Submitted to OFI:	Feb. 18, 1981, GOA-81-2072 (Wuerch to Birke)
Submitted to SPCO:	Feb. 18, 1981, GOA-81-2072 (Wuerch to Behlke)
Reviewed by OFI:	May 1, 1981, ID #R0000641 (Birke to Wuerch)
Reviewed by SPCO:	May 12, 1981, NWA-81-108 (Behlke to Kuhn)
* Add'l SPO comment:	Aug. 26, 1982, NWA-82-068 (Ott to Kuhn)
Reviewed by Alyeska:	

Draft Narrative Text

Submitted to OFI:	Sept. 1, 1982, GOA-82-2153 (Wuerch to Kari)
Submitted to SPO:	Sept. 1, 1982, GOA-82-2154 (Wuerch to Ott)
Reviewed by OFI:	April 22, 1983, A0011240 (Kari to Kuhn)
Reviewed by SPO:	April 25, 1983, NWA-83-031 (Ott to Kuhn)
Reviewed by Alyeska:	Oct. 29, 1982, ANG-A82-47 (Fisher to Ott)
Review by NWA Legal:	Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Final/Revised Text

Submitted to OFI:	May 20, 1983, GOA-83-1071 (Kuhn to Kari)
Submitted to SPO:	May 20, 1983, GOA-83-1072 (Kuhn to Kari)
Reviewed by Alyeska:	June 1, 1983, ANG-83-67 (Fisher to Kuhn)

Final Approval

OFI:	June 1, 1983, A0011538 (Kari to Kuhn)
SPO:	June 2, 1983, NWA-83-040 (Ott to Kuhn)

Errata Corrections

Submitted to OFI:	June 8, 1983, GOA-83-1079 (Kuhn to Ott)
Submitted to SPO:	June 8, 1983, GOA-83-1080 (Kuhn to Kari)

Synopsis:

The Solid Waste Management Plan is a "stand alone" plan for the collection, transportation, segregation, storage, and disposal of solid wastes generated by construction and operation of the Alaska Segment pipeline and AGCF. In response to SPO letter of August 26, 1982,* it relates expected waste materials with existing permitted facilities and additional measures to be provided for the proper management and handling of solid waste.

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 20 Title: STREAM, RIVER AND FLOODPLAIN CROSSINGS
(not required for the AGCF)

Sponsoring Department: Engineering (John Watts)

Initial Criteria and Outline

Submitted to OFI: April 24, 1981, GOA-81-2169 (Wuerch to Birke)
Submitted to SPCO: April 24, 1981, GOA-81-2170 (Wuerch to Behlke)
Reviewed by OFI: July 1, 1981, OFI-A-0000558 (Birke to Wuerch)
Reviewed by SPCO: July 30, 1981, NWA-81-163 (Behlke to Kuhn)
Reviewed by Alyeska: May 15, 1981, ANG-A81-63 (Fisher to Wuerch)

Draft Narrative Text

Submitted to OFI: October 13, 1982, GOA-82-2182 (Wuerch to Kari)
Submitted to SPO: October 13, 1982, GOA-82-2183 (Wuerch to Ott)
Draft review by OFI: May 13, 1983, A0011522 (Kari to Sotak)
Reviewed by OFI: June 15, 1983, A0011519 (Kari to Kuhn)
Reviewed by SPO: June 16, 1983, NWA-83-053 (Ott to Kuhn)
Review by NWA Legal: Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)
Reviewed by Alyeska: Dec. 3, 1982, ANG-A82-58 (Fisher to Ott)

Synopsis:

The "Stream, River and Floodplain Crossing" plan is considered by NWA to be fulfilled in a substantive sense by DCM Section 16 (River, Stream, and Wetland Crossings). A related requirement for Stipulation Plan #23, "Wetland Construction," will address operating methodologies for construction and will be prepared as a separate document at a date to be established later. (Much of the substantive material for Plan #23 was contained in the earlier Draft version of the DCM, which received government review, but was removed from the final DCM by NWA with the intent of placing it in Plan #23.) DCM Section 16 will, of course, cover the pipeline design aspects pertinent to the subject areas of both of these Stipulation 1.6.1 plans.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 21 Title: SURVEILLANCE AND MAINTENANCE (separate plan required for AGCF)

Sponsoring Department: Engineering (Nils Hetland)

Initial Criteria and Outline

Submitted to OFI: April 3, 1981, GOA-81-2127 (Wuerch to Coan)
Submitted to SPCO: April 3, 1981, GOA-81-2128 (Wuerch to Behlke)
Reviewed by OFI: July 9, 1981, A-0000667 (Sizemore to Wuerch)
Reviewed by SPCO: July 15, 1981, NWA-81-151 (Behlke to Kuhn)
Reviewed by Alyeska: June 22, 1981, ANG-A81-78 (Fisher to Behlke)

Draft Narrative Text

Submitted to OFI:
Submitted to SPO:
Reviewed by OFI:
Reviewed by SPO:
Reviewed by Alyeska:

Synopsis:

NWA will prepare an Operation and Maintenance (O&M) plan which will address programs and procedures necessary for the operations phase surveillance and maintenance of Alaska pipeline facilities. A similar plan will be prepared for the AGCF. These plans will be developed during the construction phase and when completed will fulfill the requirements of Stipulation 1.6.1. This timing was concurred in by the SPO in his letter to NWA on August 26, 1982.*

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

Plan #: 22 Title: VISUAL RESOURCES (not required by AGCF)

Sponsoring Department: Environmental (Mike Sotak)

Initial Criteria and Outline

Submitted to OFI: March 4, 1981, GOA-81-2087 (Wuerch to Birke)
 Submitted to SPCO: March 4, 1981, GOA-81-2088 (Wuerch to Behlke)
 Reviewed by OFI: May 19, 1981, OFI-A-0000007 (Birke to Wuerch)
 Reviewed by SPCO: June 11, 1981, NWA-81-131 (Behlke to Kuhn)
 Reviewed by Alyeska: April 21, 1981, ANG-A81-46 (Fisher to Wuerch)

Draft Narrative Text

Submitted to OFI: Sept. 15, 1982, GOA-82-2164 (Wuerch to Kari)
 Submitted to SPO: Sept. 15, 1982, GOA-82-2165 (Wuerch to Ott)
 Reviewed by OFI: April 21, 1983, A0011248 (Kari to Kuhn)
 Reviewed by SPO: April 25, 1983, NWA-83-032 (Ott to Kuhn)
 Reviewed by Alyeska: Oct. 29, 1982, ANG-A82-45 (Fisher to Ott)
 Review by NWA Legal: Nov. 23, 1982, LEG-83-2043 (Moses to Kuhn)

Final Revised Text

Submitted to OFI: May 20, 1983, GOA-83-1071 (Kuhn to Kari)
 Submitted to SPO: May 20, 1983, GOA-83-1072 (Kuhn to Ott)
 Reviewed by Alyeska: June 1, 1983, ANG-A83-67 (Fisher to Kuhn)

Final Approval

OFI: June 1, 1983, A0011541 (Kari to Kuhn)
 SPO: June 2, 1983, NWA-83-041 (Ott to Kuhn)

Errata Corrections

Submitted to OFI: June 8, 1983, GOA-83-1079 (Kuhn to Kari)
 Submitted to SPO: June 8, 1983, GOA-83-1080 (Kuhn to Ott)

Synopsis:

The Visual Resources Plan establishes procedures for considering and minimizing the potential visual impacts of the pipeline and related facilities. The objectives of the Visual Resource management program are to prevent adverse visual impacts whenever possible, to reduce severity and extent of the adverse impacts that cannot be prevented and to rehabilitate the adverse effects. Emphasis will be placed on establishing the actual visibility of sites and the extent of visual contrast introduced by pipeline activities. The primary treatment will be the reduction of site contrast through landform grading and the secondary treatment will be the reduction of visual contrast through vegetation recovery.

By letter A0011541, dated June 1, 1983, OFI approved the plan emphasizing that "the general criteria...in Appendix 2-A are the standards to be followed in mitigating potential impacts to visual resources on a project-wide basis."

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 23 Title: Wetland Construction (not required for AGCF)

Sponsoring Department: Construction (Bob Hauser)

Initial Criteria and Outline

Submitted to OFI:	April 30, 1981, GOA-81-2183 (Wuerch to Coan)
Submitted to SPCO:	April 30, 1981, GOA-81-2184 (Wuerch to Behlke)
Reviewed by OFI:	July 22, 1981, OFI-A-0000803 (Sizemore to Wuerch)
Reviewed by SPCO:	Aug. 14, 1981, NWA-81-172 (Behlke to Kuhn)
Reviewed by Alyeska:	June 3, 1981, ANG-A81-70 (Fisher to Behlke)
Reviewed by North Slope Borough:	June 8, 1983 (Adams to Behlke)

Draft Narrative Text

Submitted to OFI:
Submitted to SPO:
Reviewed by OFI:
Reviewed by SPO:
Reviewed by Alyeska:

Synopsis:

The Wetlands Construction plan will address operating methodologies for construction. Much of the substantive material for Plan #23 was contained in an earlier draft version of the pipeline DCM, which received favorable governmental review, but was removed from the final text of the DCM with the intent of republishing it later in Stip. Plan #23.

Work on this plan will resume upon project remobilization.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 24 Title: SEISMIC (joint pipeline - AGCF plan)

Sponsoring Department: Engineering (Nils Hetland)

Initial Criteria and Outline

- * Submitted to OFI: Feb. 13, 1981, GOA-81-2048 (Wuerch to Black)
- * Submitted to SPCO: Feb. 13, 1981, GOA-81-2054 (Wuerch to Behlke)
- * Reviewed by OFI: April 21, 1981 (Black to Wuerch)
- Reviewed by SPCO:
- * Reviewed by Alyeska: Feb. 25, 1981, ANG-H-81-2 (McPhail to Wuerch)

Draft Narrative Text

- * Submitted to OFI: Feb. 26, 1981, GOA-81-2080 (Wuerch to Black)
- * Submitted to SPO: Feb. 26, 1981, GOA-81-2081 (Wuerch to Behlke)
- * Reviewed by OFI: June 5, 1981, Doc. #R-0000847 (Black to Wuerch)
- Reviewed by SPO:
- Reviewed by Alyeska:

AGCF Revised Plan

- NWA company memo: Jan. 11, 1983 (McNeil to Kuhn)
- Submitted to OFI: Jan. 18, 1983, GOA-83-1006 (Kuhn to Black)
- Submitted to SPO: Jan. 18, 1983, GOA-83-1007 (Kuhn to Ott)
- * Reviewed by Alyeska: Feb. 22, 1983, ANG-A83-14 (Fisher to Ott)

Final Text

Submitted to OFI&SPO: Jan. 18, 1984, GOA-84-1008 (Kuhn to Kari & Brossia)

Final Approval

SPO: June 5, 1984 (Brossia to Kari), forwarded to NWA by
June 20, 1984, A0011711 (Kari to Watts)
OFI: June 20, 1984, A0011709 (Kari to Kuhn)

Synopsis:

Section 17 of Pipeline Design Criteria Manual, "Fault Crossings," contains the project criteria and is therefore incorporated by reference. For any detailed design issues, reference is made to the Pipeline Design Packages, including Mile-by-Mile design drawings. For any installation plan reference is made to the NTPA's, construction specifications and execution contractors' work plans. The seismic monitoring will be covered in the Operations and Maintenance Plan, and reference is made to this plan. Similar references will be cited for the AGCF, including reference to Design Review Package No. 2, "Criteria" which includes specific detail.

* Document missing from Washington, D.C. Stipulation 1.6.1 - 25 Plans file.

STIPULATION 1.6.1 PLAN DATA SHEET

Plan #: 25 Title: HUMAN CARNIVORE INTERACTION
(joint pipeline - AGCF plan)

Sponsoring Department: Environmental (Mike Sotak)

Initial Criteria and Outline

Submitted to OFI: Feb. 13, 1981, GOA-81-2049 (Wuerch to Birke)
Submitted to SPCO: Feb. 13, 1981, GOA-81-2055 (Wuerch to Behlke)
* Reviewed by OFI: April 17, 1981 (Birke to Wuerch)
Reviewed by SPCO: May 11, 1981, NWA-81-105 (Behlke to Kuhn)
Reviewed by Alyeska: April 23, 1981 (ANG-A81-49 (Fisher to Behlke)
Review of SPO comments
by NWA Legal: May 26, 1981, LEG-81-2010 (Moses to Kuhn)

Draft Narrative Text

Submitted to OFI: Aug. 30, 1982, GOA-82-2148 (Wuerch to Kari)
Submitted to SPO: Aug. 30, 1982, GOA-82-2149 (Wuerch to Ott)
Reviewed by OFI: April 21, 1983, A0011219 (Kari to Kuhn)
Reviewed by SPO: April 25, 1983, NWA-83-033 (Ott to Kuhn)
Reviewed by Alyeska: Sept. 22, 1982, ANG-A82-38 (Fisher to Wuerch)
Review by NWA Legal: Nov. 23, 1982, LEG-82-2043 (Moses to Kuhn)

Final/Revised Text

Submitted to OFI: May 20, 1983, GOA-83-1071 (Kuhn to Kari)
Submitted to SPO: May 20, 1983, GOA-83-1072 (Kuhn to Ott)
Reviewed by Alyeska: June 1, 1983, ANG-A83-67 (Fisher to Kuhn)

Final Approval

OFI: June 1, 1983, A0011537 (Kari to Kuhn)
SPO: June 2, 1983, NWA-83-042 (Ott to Kuhn)

Synopsis:

The Human Carnivore Interaction plan stresses the consequences of project development in remote areas where there will be significant interaction between principally bears, wolves and foxes and man. Preventing this form of interaction is best realized by fencing areas of human habitation, reducing carnivore attractants, providing employees with environmental training stressing avoidance, and developing a contingency plan for control of animal problems.