

## INTRODUCTION

Appendices to the Beaufort Sea Oil and Gas Development/Northstar Project Environmental Impact Statement (EIS) consist of Appendices A through P. In order to allow the reader of both the Draft EIS (DEIS) and Final EIS (FEIS) to quickly use the appendices, we have continued the lettering of the appendices where we left off in the DEIS. The last appendix in the DEIS was Appendix J. The first new appendix to the FEIS is Appendix K. The last appendix to the FEIS is Appendix P. Appendices A, C, D, and E of the DEIS are printed in this FEIS because they have been revised since their publication in the DEIS. Those appendices that were not modified between the DEIS and FEIS (Appendices B, F, G, H, I, and J) are not re-published in this FEIS. These include the Biological Assessment (Appendix B), a draft version of the National Pollutant Discharge Elimination System (NPDES) permit (Appendix F), NPDES Fact Sheet (Appendix G), the Ocean Discharge Criteria Evaluation (Appendix H), the Section 103 Evaluation (Appendix I), and the draft version of the Underground Injection Control permit (Appendix J).

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APPENDIX B

BIOLOGICAL ASSESSMENT

A Biological Assessment is prepared to conform with the requirements of Section 7 (a)(2) of the Endangered Species Act of 1973 (ESA), as amended. This Biological Assessment was submitted to the National Marine Fisheries Service and U.S. Fish and Wildlife Service to initiate formal consultation under the ESA. The Biological Assessment identifies potential effects to threatened and endangered species as a result of development/production of the Northstar Unit, including subsequent transport of crude oil along the U.S. West Coast and Far East routes to refinery destinations. Except for the U.S. West Coast threatened and endangered species descriptions, most of the information in the Biological Assessment has been repeated or incorporated by reference into the biological, noise, and oil chapters of the Final Environmental Impact Statement (EIS).

The Biological Assessment was published as Appendix B to the Draft EIS in June 1998. Because the Biological Assessment has not been revised for this Final EIS, it is not included in this document, and the reader is referred to the June 1998 Draft EIS. The U.S. Fish and Wildlife Service and National Marine Fisheries Service used the Biological Assessment in preparation of their respective Biological Opinions. The Biological Opinions are provided in Appendix M of this Final EIS.

APPENDIX C

UPDATED MAILING LIST

Appendix C lists the individuals, organizations, and government agencies that received newsletters and public notices about the Beaufort Sea Oil and Gas Development/Northstar Project Environmental Impact Statement (EIS). The list is organized alphabetically by government agencies, organizations, and interested individuals. Parties providing comments, either written or oral, on the June 1998 Draft EIS are listed in Appendix K. Commenters who provided addresses with their comments on the Draft EIS will receive future mailings as will those listed in this Appendix C.

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**GOVERNMENT AGENCIES**

Alaska Department of Community & Regional Affairs  
Alaska Department of Environmental Conservation  
Alaska Department of Fish & Game  
Alaska Department of Law  
Alaska Department of Natural Resources  
Alaska Department of Transportation & Public Facilities  
Alaska Division of Governmental Coordination  
Alaska Marine Conservation Council  
Alaska Office of Environmental Policy & Compliance  
Alaska Oil & Gas Conservation Commission  
Alaska Research Center - National Biological Survey  
Alaska Resources Library and Information Services  
Alaska Senate Resources Committee  
Alaska State Library  
Alaska State Pipeline Coordinator  
Arctic Marine Resource Commission  
Attorney General's Office  
Bering Straits CRSA  
Bureau of Indian Affairs  
Bureau of Land Management  
City of Kotzebue  
City of Nome  
City of Wainwright  
Congressman Don Young  
George Francis Memorial Library  
Governor Tony Knowles  
Ilisagvik Library  
Indian and Northern Affairs, Canada Natural Resources and Economic Development  
Joint Pipeline Office  
Juneau Public Library  
Kaktovik Village Council  
Kaveolook School Library  
Minerals Management Service  
National Marine Fisheries Service  
National Oceanic & Atmospheric Administration  
National Oceanic & Atmospheric Administration, Northwest and Alaska Fisheries Center,

RACED Division  
National Park Service  
Native Village of Anaktuvuk Pass  
Native Village of Barrow  
Native Village of Kaktovik



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**GOVERNMENT AGENCIES (Cont.)**

Native Village of Nuiqsut  
Native Village of Point Hope  
Noel Wien Public Library  
North Slope Borough  
North Slope Borough Assembly Member  
North Slope Borough - Department of Wildlife Management  
North Slope Borough Planning Commission  
North Slope Borough School District  
Nuiqsut City Office  
Senator Frank Murkowski  
Senator Ted Stevens  
Tikigaq Library  
Tuzzy Consortium Library  
U.S. Army Corps of Engineers, Cold Regions Research and Engineering Laboratory  
U.S. Army Engineer District, Alaska  
U.S. Centers for Disease Control and Prevention  
U.S. Coast Guard  
U.S. Department of Defense  
U.S. Department of the Interior  
U.S. Department of Transportation  
U.S. Environmental Protection Agency  
U.S. Fish & Wildlife Service  
U.S. Geological Survey  
U.S. House of Representatives  
University of Alaska, Anchorage  
University of Alaska, Fairbanks  
Valdez Consortium Library  
Village Coordinator - Atqasuk  
Village Coordinator - Point Lay  
Village Coordinator - Wainwright  
Z.J. Loussac Library

**ORGANIZATIONS**

AGRA  
Air Logistics of Alaska, Inc.

Alaska Airlines  
Alaska Clean Seas  
Alaska Conservation Alliance  
Alaska Conservation Foundation  
Alaska Eskimo Whaling Commission

**ORGANIZATIONS (Cont.)**

Alaska Federation of Natives  
Alaska Native Knowledge Network  
Alaska Native Science Commission  
Alaska Natural Heritage Program  
Alaska Oil and Gas Association  
Alaska Pacific University  
Alaska Public Radio Network  
Alaska Support Industry Alliance  
Alaska Wilderness League  
Amau Engineering  
AMC Engineers  
Amerada Hess Corp.  
American Petroleum Institute  
Amoco Canada Petroleum Co., Ltd.  
Amoco Production Company  
Anchorage Daily News  
Applied Sociocultural Research  
ARCO Alaska, Inc.  
ARCO Environmental Protection Department  
Arctic Connections  
Arctic Development Council  
Arctic Network  
Arctic Research Commission  
Arctic Slope Native Association, Limited  
Arctic Slope Regional Corporation  
Arctic Sounder  
Artrex Environmental Services  
Ashland, Inc.  
Associated Press  
Association of Village Council Presidents  
Ater Wynne

Atqasuk Corporation  
Ball State University  
Barrow Arctic Science Consortium  
Barrow Cable TV  
Barrow Whaling Captains Association  
Bering Air, Inc.  
BP Exploration (Alaska), Inc.  
Channel 2 News  
Chevron USA, Inc.

#### ORGANIZATIONS (Cont.)

Conoco, Inc.  
Cornell Laboratory of Ornithology  
Crowley Marine Services  
Cully Corporation  
Dames & Moore  
Defenders of Wildlife  
DF Dickins Associates, Ltd.  
Doyon Limited  
Eskimo Walrus Commission  
Exxon Company, USA  
Fairbanks Daily News Miner  
Fairweather E&P Services  
Financial Land Investment Corp.  
Gateway Environmental Services  
General Construction Co.  
Genis Technical Services  
Global Marine Drilling Co.  
Great Lakes Dredge and Rock Company  
Greenpeace  
Guess & Rudd  
Gwichin Steering Committee  
Harding Lawson & Associates  
HWW Consultants  
I.V.O.E. Local 302  
Indian Affairs & Northern Development  
Indigenous Peoples Council for Marine Mammals

Institute of Ocean Sciences  
Inupiat Community of the Arctic Slope  
Journal of Commerce  
Kaktovik Inupiat Corporation  
Kaktovik Whaling Captains Association  
Kinnetic Laboratories, Inc.  
Kuukpik Corporation  
Laborers 942  
Lands Nana Regional Corporation  
LGL Alaska Research Associates  
Living Resources, Inc.  
Lynden Air Freight  
Marathon Oil Company  
Marine Acoustics, Inc.

#### ORGANIZATIONS (Cont.)

Michael Baker Jr., Inc.  
Murphy Exploration & Production Co.  
National Audubon Society  
National Wildlife Federation  
Natural Resources Defense Council  
Northern Alaska Environmental Center  
Northern Consulting Group  
Northern Ecological Services  
Northwest Strategies  
Northwestern University  
Nuiqsut Whaling Captains Association  
Nunamiut Corporation  
Obelisk Hydrocarbons (Alaska), Ltd.  
Oil & Gas Journal  
Oil Watch Alaska  
Olgoonik Corporation  
Parametrix, Inc.  
Peches et Oceans Bibliotheque, Institut Maurice - Lamontagne  
Pennzoil Place  
Perkins Coie, LLT  
Phillips Petroleum

Piquini Management Corporation  
 Point Lay IRA Council  
 Pool Arctic Alaska  
 Port of Anchorage  
 RURAL  
 Sandwell Engineering, Inc.  
 Shell Western E&P, Inc.  
 Sierra Club  
 Sierra Club Legal Defense Fund  
 Stephen R. Braund & Associates  
 Support Industry Alliance  
 Tetra Tech, Inc.  
 The Alliance  
 Three Parameters Plus  
 Tigara Corporation  
 T.R. Anderson General Construction  
 Trustees for Alaska  
 Tulalip Tribes  
 Tundra Times

#### ORGANIZATIONS (Cont.)

U.S. Arctic Network  
 Ukpeagvik Inupiat Corporation  
 Ultrasystems Environmental  
 Union Oil Company of California  
 Union Texas Petroleum  
 University of Alaska Marine Advisory Program  
 VECO Construction  
 Waddell Marine Biotech  
 Western Geophysical Co.  
 Wilderness Society  
 Wildlife Federation of Alaska  
 Woodward-Clyde Consultants

#### INDIVIDUALS

Adams, Steve  
 Agiak, Alice  
 Ahkiviana, Elizabeth

Ahkiviana, Emma  
Ahmakak, Mark U.  
Ahmaogak, Fred  
Ahmaogak, Maggie  
Ahnupkana, Roger  
Aishanna, Alen  
Aishanna, Freddie  
Aishanna, Herman  
Aishanna, Mildred  
Akers, James K.  
Akootchook, Bert  
Akootchook, Isaac  
Akootchook, Ray, Sr.  
Akpik, Joseph K.  
Alexander, Larry  
Allen, Jim T.  
Almon, Arthur  
Angasan, Ida E.  
Arminski, Tom  
Bechtold, Bob  
Behr, Milt  
Beistline, Earl H.

Brown, John  
Burke, Keith  
Burnell, Karen  
Burns, John  
Burns, Nora Jane  
Cabinboy, Olivia  
Callaghan, Sarah  
Camlin, Karen  
Campbell, Gary  
Casteel, Tim, Jr.  
Chinn, Lanston

Bendersky, Mark  
Bennett, Michael  
Bevington, Daniel  
Blasingame, Jim  
Bodfish, Barry, Sr.  
Bowen, Sue  
Brock, Robert  
Broussard, Frank  
Brower, Arnold, Jr.  
Brower, Charlotte  
Brower, Harry  
Brower, Margaret  
Brown, Gordon, II  
Brown, Jerry

## INDIVIDUALS (Cont.)

Cloud, Jim	Hopson, Edward
Cockman, Jared	Huff, Barbara
Collins, Kathy	Hugo, Zachariah
Conley, Marvin	Ione, Matthew
Cooper,, C.E., Jr.	Ipalook, Alice
Corkran, L. D.	Ipalook, Lloyd
Cougan, Karen	Ipalook, Marlene
Diaz, Carl	James, Alfred, III
Dittrich, John	Janke, Carmen
Drew, James V.	Johnson, Chuck
Driggs, Albert T.	Johnson, Pete
Dunham, Jon	Judkins, Teresa
Dunham, Teresa	Kagak, Luke
Edwards, Isabel	Kaigelak, Cheryl A.
Eliason, Scott	Kaleak, George T., Sr.
Ericklook, Harry	Kasak, Larry, Sr.
Ericklook, Lucy Mae	Kasak, Virginia
Fagnani, Matthew	Kaveolook, Marie
Farris, Trent	Kenny, Michael
Finkler, Earl	Kittick, Dorcas
Fisher, Carrie	Knock, Tom
Freeman, Ken	Koonuk, Jake
Frey, Mano	Krankus, Kevin
Galbreath, Martha	Kunaknana, Sarah
Gandos, Alexander	Laasch, Jack
Gardner, Bob	Laughlin, Andrew
Goode, Carlton	Leavitt, Steve E.
Gronholdt, Paul	LeClerc, Steve
Hathaway, Ted & Marilyn	Lindstrom, Jon E.
Haugen, David W.	Ljungblad, Don
Heinze, Harold	Locaudro, Roger
Hepa, Taqulik	Long, Frank
Hernandez, Maria	Long, Jeffrey
Hill, Richard	Long, Shara
Hix, Lea	Mancil, Ron
Hoge, Andrew E.	Marrs, Carl

McDonald, Harry  
Michal, J.H.  
Mincheaux, Norma  
Morgan, Christopher  
Muellenhoff, William

Munoz, Ben  
Napageak, Frances  
Napageak, Thomas  
Narayanan, Ram  
Negovanna, Silas

**INDIVIDUALS (Cont.)**

Nelson, Kristen  
Nukapigak, Isaac & Lucy  
Nukapigak, Ruth  
O'Hara, Todd  
Oktolik, Enoch  
Ostbloom, Roger  
Otis, Buzz  
Paldi, Nana  
Panik, Peter  
Paulsberg, Carl  
Pierce, William  
Pilcher, Glen  
Polak, Joel  
Pratt, Fred  
Purdy, Richard  
Quesner, Paul  
Rexford, Burton  
Rexford, Fenton  
Rexford, Rosabelle  
Rhyner, James  
Richardson, Jeff  
Rose, Scott  
Rulland, Rosie  
Russell, Mesrole  
Sabo, T.  
Santos, Tony  
Scarborough, Dave  
Schaeffer, Jack  
Schmidt, George R.  
Shields, Mary E.  
Siegel, Kathy

Sielak, Clyde  
Sielak, Eunice M.  
Sielak, Willie, Jr.



Simmonds, Abe  
Simmons, Lena  
Siok, Jerry  
Smith, Carolyn  
Stiles, Bob  
Stinson, Bob  
Suydam, Robert  
Taalán, James  
Tagarook, Clara  
Tagarook, George  
Tagarook, Kenneth  
Taleak, Harriet  
Tallent, Bob  
Tazruk, Harry  
Tegtmeier, A.A.  
Thomas, David  
Thomas, Joe J.

Thompson, Sharm  
Thompson, Sharon  
Thorson, Scott  
Toland, Karen  
Traynor, Merylin  
Tukle, Sam  
Tukle, Leonard A.  
Turletes, Ltc.  
Turner, Mary Ann  
Tuzroyluk, Rex, Jr.  
Wagner, Rick  
Wassink, Harry  
Word, Martin  
Worl, Bob  
Wuestenfeld, Karen  
Yatlin, Sheri

APPENDIX D

NORTHSTAR UNIT LEASE STIPULATION SUMMARIES  
AND APPLICABLE ALASKA REGULATIONS

Appendix D includes summaries of lease stipulations issued by the U.S. Department of the Interior, Bureau of Land Management (BLM), and the State of Alaska Division of Minerals and Energy Management (currently Division of Oil and Gas of the Alaska Department of Natural Resources [ADNR]). Outer Continental Shelf functions were transferred from the BLM to the Minerals Management Service by Executive Order on October 1, 1982, and applied to the two federal leases that comprise portions of the Northstar Unit. ADNR governs oil and gas exploration and development activities for the five state leases that comprise the remainder of the Northstar Unit. In addition, select Alaska air quality statutes specific to the project are included.

NORTHSTAR UNIT LEASE  
STIPULATION SUMMARIES

TABLE D-1  
SUMMARY OF NORTHSTAR UNIT LEASE STIPULATIONS

Lease Stipulation	U.S. Department of the Interior Bureau of Land Management (BLM) (Currently Minerals Management Service [MMS])	State of Alaska Division of Minerals and Energy Management (Currently the Division of Oil and Gas)	State of Alaska Department of Natural Resources (ADNR)
No. 1	<p><u>Historic and Archaeological Discoveries:</u></p> <ul style="list-style-type: none"> <li>- Protect and report any site, structure, or object of historic or archaeological significance during the conduct of operation.</li> <li>- Upon abandonment of facilities, the facilities shall no longer intrude on historic or cultural scenes and may not adversely affect archaeological or historic sites.</li> </ul> <p><i>NOTE: Lease Stipulation No. 1 is similar to Lease Stipulation No. 1 issued by State of Alaska, Division of Oil and Gas and Lease Stipulation No. 2 issued by ADNR.</i></p>	<p><u>Historic and Archaeological Discoveries:</u></p> <ul style="list-style-type: none"> <li>- Protect and report any site, structure, or object of historic or archaeological significance during the conduct of operation.</li> <li>- Upon abandonment of facilities, the facilities shall no longer intrude on historic or cultural scenes and may not adversely affect archaeological or historic sites.</li> </ul> <p><i>NOTE: Lease Stipulation No. 1 is similar to Lease Stipulation No. 1 issued by MMS and Lease Stipulation No. 2 issued by ADNR.</i></p>	<p><u>Spill Prevention Control and Countermeasure (SPCC) Plan:</u></p> <ul style="list-style-type: none"> <li>- SPCC Plan must be approved before drilling and construction of onshore oil and gas storage facilities (capacity greater than 660 gallons), transfer, and transportation facilities. Plan must include blow-out and spill mitigation plan.</li> </ul>
No. 2	<p><u>Environmental Training:</u></p> <ul style="list-style-type: none"> <li>- Environmental training programs for all personnel involved in exploration or development activities shall be included in the proposed plan of exploration or development.</li> <li>- A plan for continuing technical and environmental training for all personnel must be submitted and approved.</li> </ul> <p><i>NOTE: Lease Stipulation No. 2 is similar to Lease Stipulation No. 2 issued by State of Alaska, Division of Oil and Gas.</i></p>	<p><u>Environmental Training:</u></p> <ul style="list-style-type: none"> <li>- Environmental training programs for all personnel involved in exploration or development activities shall be included in the proposed plan of exploration or development.</li> <li>- A plan for continuing technical and environmental training for all personnel must be submitted and approved.</li> </ul> <p><i>NOTE: Lease Stipulation No. 2 is similar to Lease Stipulation No. 2 issued by MMS.</i></p>	<p><u>Historic and Archaeological Discoveries:</u></p> <ul style="list-style-type: none"> <li>- Protect and report any site, structure, or object of historic or archaeological significance during the conduct of operation.</li> <li>- Upon abandonment of facilities, the facilities shall no longer intrude on historic or cultural scenes and may not adversely affect archaeological or historic sites.</li> </ul> <p><i>NOTE: Lease Stipulation No. 2 is similar to Lease Stipulation No. 1 issued by MMS and Lease Stipulation No. 1 issued by State of Alaska, Division of Oil and Gas.</i></p>
No. 3	<i>NOTE: Lease Stipulation No. 3 was omitted as shown in</i>	<u>Site Restoration:</u>	<u>Seasonal Drilling Restriction:</u>

Lease Stipulation	U.S. Department of the Interior Bureau of Land Management (BLM) (Currently Minerals Management Service [MMS])	State of Alaska Division of Minerals and Energy Management (Currently the Division of Oil and Gas)	State of Alaska Department of Natural Resources (ADNR)
	<i>Appendix C - Northstar Unit Lease Stipulations.</i>	<ul style="list-style-type: none"> <li>- After exploratory drilling phase is completed, the site shall be restored to original condition unless the site may be used for additional exploration, production, or not in the best interest of the public or environment to require removal or restoration.</li> <li>- Authorization to leave structure in place must be obtained from Division of Minerals and Energy Management, after consultation with Alaska Department of Fish and Game (ADF&amp;G) and Alaska Department of Environmental Conservation (ADEC).</li> </ul>	<i>NOTE: Lease Stipulation No. 3 applies only to exploratory drilling offshore. Exploratory activities have been completed for the Northstar Project. Development and production drilling is not intended to be restricted per the original lease.</i>
No. 4	<p><u>Solid Waste Disposal:</u></p> <ul style="list-style-type: none"> <li>- Solid waste disposal on artificial islands or in marine waters within the lease area is prohibited.</li> </ul> <p><i>NOTE: Lease Stipulation No. 4 is similar to Lease Stipulation No. 8 issued by State of Alaska, Division of Oil and Gas.</i></p>	<i>NOTE: Lease Stipulation No. 4 was omitted as shown in Appendix C - Northstar Unit Lease Stipulations.</i>	<i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i>
No. 5	<p><u>Pipelines:</u></p> <ol style="list-style-type: none"> <li>1. Pipelines will be required if: <ol style="list-style-type: none"> <li>a) Right-of-way can be determined.</li> <li>b) Technically feasible.</li> <li>c) Incremental costs of pipeline over alternative transport increases environmental protection and reduces multiple conflicts.</li> </ol> </li> <li>2. No crude transport allowed by vessels after construction of a pipeline, except in emergency.</li> <li>3. If surface transport is used instead of pipeline, vessels must meet standards of the Ports and Waterways Safety Act of 1972.</li> </ol>	<p><u>Special Biological Resources:</u></p> <ul style="list-style-type: none"> <li>- Required to conduct environmental surveys if biological populations or habitats that may require additional protection are identified.</li> <li>- Nature and extent of any surveys will be determined case-by-case.</li> <li>- Surveys may be required to: <ol style="list-style-type: none"> <li>1) Locate the site of operation to not adversely affect the resource identified.</li> <li>2) Establish that such operation will not have significant adverse effect upon the resource identified or that special biological resources do not exist.</li> </ol> </li> </ul>	<i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i>

Lease Stipulation	U.S. Department of the Interior Bureau of Land Management (BLM) (Currently Minerals Management Service [MMS])	State of Alaska Division of Minerals and Energy Management (Currently the Division of Oil and Gas)	State of Alaska Department of Natural Resources (ADNR)
	<p><i>NOTE: Lease Stipulation No. 5 is similar to Lease Stipulation No. 7 issued by State of Alaska, Division of Oil and Gas.</i></p>	<p>3) Operate during periods of time not adversely affecting the biological resources.</p> <p>4) Modify operations to prevent adverse effects to significant biological populations or habitats deserving protection.</p> <ul style="list-style-type: none"> <li>- Should any area of biological significance be discovered during operations, operator must report findings and preserve and protect resource from damage until directions are given with respect to its protection.</li> <li>- Submit all data obtained in the course of surveys and take no action that may result in any effect on biologic populations or habitats. Special biological resources and their habitats include hard and rocky bottoms with kelp, bryozoans, sponges, coral, or other epibenthic communities.</li> </ul> <p><i>NOTE: Lease Stipulation No. 5 is similar to Lease Stipulation No. 7 issued by BLM.</i></p>	
No. 6	<p><u>Discharge into Marine Waters:</u></p> <ul style="list-style-type: none"> <li>- Discharge of produced waters into marine waters is prohibited. Discharges in tracts greater than 32 ft (10 m) of water may be approved case-by-case.</li> <li>- Discharge of drilling mud and cuttings into marine waters is prohibited. Discharge may be approved case-by-case. <ul style="list-style-type: none"> <li>a) In water depths greater than 32 ft (10 m).</li> <li>b) In water depths less than 32 ft (10 m) if effluents are shown to be non-toxic and can be adequately dispersed.</li> </ul> </li> </ul>	<p><u>Discharge into Marine Waters:</u></p> <ul style="list-style-type: none"> <li>- Discharge of produced waters into marine waters is prohibited; however, ADEC may approve discharges in tracts greater than 32 ft (10 m) of water case-by-case.</li> <li>- Discharge of drilling muds and cuttings into marine waters is prohibited, however ADEC may approve discharges on a case-by-case basis: <ul style="list-style-type: none"> <li>a) In water depths greater than 32 ft (10 m).</li> <li>b) In water depths less than 32 ft (10 m) if they are non-toxic and can be adequately dispersed.</li> </ul> </li> </ul>	<p><i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i></p>

Lease Stipulation	U.S. Department of the Interior Bureau of Land Management (BLM) (Currently Minerals Management Service [MMS])	State of Alaska Division of Minerals and Energy Management (Currently the Division of Oil and Gas)	State of Alaska Department of Natural Resources (ADNR)
No. 7	<p><i>NOTE: Lease Stipulation No. 6 is similar to Lease No. 6 issued by State of Alaska, Division of Oil and Gas.</i></p> <p><u>Special Biological Resources:</u></p> <ul style="list-style-type: none"> <li>- Operators required to conduct resource surveys if biological populations or habitats that may require additional protection are identified.</li> <li>- Nature and extent of any surveys will be determined case-by-case.</li> <li>- Based on surveys, may be required to:               <ol style="list-style-type: none"> <li>1) Locate the site of operation to not adversely affect the resource identified.</li> <li>2) Establish that such operation will not have significant adverse effects upon the resource identified or that special biological resources do not exist.</li> </ol> </li> </ul>	<p><i>NOTE: Lease Stipulation No. 6 is similar to Lease No. 6 issued by MMS.</i></p> <p><u>Pipelines:</u></p> <ol style="list-style-type: none"> <li>1. Pipelines will be required if:           <ol style="list-style-type: none"> <li>a) Right-of-way can be determined.</li> <li>b) Technically feasible.</li> <li>c) Incremental costs of pipeline over alternative transport increases environmental protection and reduces multiple conflicts.</li> </ol> </li> <li>2. No crude transport allowed by tankers after construction of a pipeline except in emergency.</li> <li>3. If surface transport is used instead of pipeline, vessels must meet standards of the Ports and Waterways Safety Act of 1972.</li> </ol> <p><i>NOTE: Lease Stipulation No. 7 is similar to Lease No. 5 issued by MMS.</i></p>	<p><i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i></p>
No. 7 (Cont.)	<p><u>Special Biological Resources:</u> (Cont.)</p> <ol style="list-style-type: none"> <li>3) Operate during periods of time not adversely affecting the biological resources.</li> <li>4) Modify operations to prevent adverse affects to significant biological populations or habitats deserving protection.</li> </ol> <ul style="list-style-type: none"> <li>- Should any area of biological significance be discovered during operations, operator must report findings and preserve and protect resource from damage until directions are given with respect to its protection.</li> <li>- Submit all data obtained in the course of surveys and take no action that might result in any effect on</li> </ul>		



Lease Stipulation	U.S. Department of the Interior Bureau of Land Management (BLM) (Currently Minerals Management Service [MMS])	State of Alaska Division of Minerals and Energy Management (Currently the Division of Oil and Gas)	State of Alaska Department of Natural Resources (ADNR)
	<p>biologic populations or habitats. Special biological resources and their habitats include hard and rocky bottoms with kelp, bryozoans, sponges, coral, or other epibenthic communities.</p> <p><i>NOTE: Lease Stipulation No. 7 is similar to Lease No. 5 issued by State of Alaska, Division of Oil and Gas.</i></p>		
No. 8	<p><u>Exploratory Activities:</u></p> <p><i>NOTE: Lease Stipulation No. 8 applies only to exploratory drilling and testing. This condition was in effect for the first two years of the lease, beginning 1982. Exploratory activities have been completed for the Northstar Project; therefore, this stipulation does not apply to development or production stages. For more information see Appendix C - Northstar Unit Lease Stipulations.</i></p>	<p><u>Solid Waste Disposal:</u></p> <ul style="list-style-type: none"> <li>- Solid waste disposal on natural or artificial islands or in marine waters within the lease area is prohibited.</li> </ul> <p><i>NOTE: Lease Stipulation No. 8 is similar to Lease Stipulation No. 4 issued by MMS.</i></p>	<p><i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i></p>
No. 9	<p><i>NOTE: Lease Stipulation No. 9 was omitted as shown in Appendix C - Northstar Unit Lease Stipulations.</i></p>	<p><u>Exploratory Activities:</u></p> <p><i>NOTE: Lease Stipulation No. 9 applies only to exploratory drilling and testing. This condition was in effect for the first 2 years of the lease, beginning 1982. Exploratory activities have been completed for the Northstar Project; therefore, this stipulation does not apply to development or production stages.</i></p>	<p><i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i></p>
No. 10	<p><u>Royalty Rates:</u></p> <p>Lease Stipulation No. 10 changed when royalty rates were negotiated with Governor Knowles and approved by the Alaska State Legislature.</p>	<p><u>Royalty Rates:</u></p> <p>Lease Stipulation No. 10 changed when royalty rates were negotiated with Governor Knowles and approved by the Alaska State Legislature.</p>	<p><i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development</i></p>

Lease Stipulation	U.S. Department of the Interior Bureau of Land Management (BLM) (Currently Minerals Management Service [MMS])	State of Alaska Division of Minerals and Energy Management (Currently the Division of Oil and Gas)	State of Alaska Department of Natural Resources (ADNR)
			<i>operation.</i>
No. 11	<u>Interim Agreement:</u> Lease Stipulation No. 11 changed when royalty rates were negotiated with Governor Knowles and approved by the Alaska State Legislature.	<u>Interim Agreement:</u> Lease Stipulation No. 11 changed when royalty rates were negotiated with Governor Knowles and approved by the Alaska State Legislature.	<i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i>
No. 12	<u>"Agreement Regarding Unitization for the Proposed Joint Federal/State Beaufort Sea Lease Sale":</u> - Lessee is bound by the terms of the above named agreement executed by the United States and State of Alaska on October 26, 1979.  <i>NOTE: Lease Stipulation No. 12 is similar to Lease Stipulation No. 12 issued by State of Alaska, Division of Oil and Gas.</i>	<u>"Agreement Regarding Unitization for the Proposed Joint Federal/State Beaufort Sea Lease Sale":</u> - Lessee is bound by the terms of the above named agreement executed by the United States and State of Alaska on October 26, 1979.  <i>NOTE: Lease Stipulation No. 12 is similar to Lease Stipulation No. 12 issued by MMS.</i>	<i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i>
No. 13	<i>NOTE: No lease stipulation included.</i>	<u>Seismic Activity:</u> - Seismic activity prohibited from March 20 to break-up. Seismic activity after March 20 may be approved case-by-case.	<i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i>
No. 14	<i>NOTE: No lease stipulation included.</i>	<u>Coastal Zone Management:</u> - Lessee is subject to all coastal management plans and ordinances.	<i>NOTE: Lessee(s) must submit a detailed plan of operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i>
No. 15	<i>NOTE: No lease stipulation included.</i>	Lease Stipulation Nos. 15-19:	<i>NOTE: Lessee(s) must submit a detailed plan of</i>

Lease Stipulation	U.S. Department of the Interior Bureau of Land Management (BLM) (Currently Minerals Management Service [MMS])	State of Alaska Division of Minerals and Energy Management (Currently the Division of Oil and Gas)	State of Alaska Department of Natural Resources (ADNR)
		- All of lease stipulation Nos. 15-19 have been struck. They pertain to royalty and drilling commitments. Royalty rates have been renegotiated and the 5- and 7-year drilling commitment is long expended.	<i>operations, as summarized in Table D-2, to ADNR and the Division of Minerals and Energy Management (currently Division of Oil and Gas) for approval prior to conducting any exploratory or development operation.</i>

Notes: ft = feet  
m = meters



**TABLE D-2**  
**SUMMARY OF NORTHSTAR UNIT LEASE RESTRICTIONS**  
**RELATED TO PLANS OF OPERATION AND OTHER TERMS OF SALE**  
**Issued by the State of Alaska Department of Natural Resources**

No.	Restriction
No. 1	<ul style="list-style-type: none"> <li>- Road and pipeline crossings must be aligned perpendicular or near perpendicular to watercourses.</li> <li>- Permanent facilities will be prohibited within 500 ft (152 m) of the Colville and Ugnuvarik Rivers.</li> <li>- Facilities will be prohibited within 100 ft (30 m) of all other streams and fish-bearing lakes unless determined that such facilities' placement will not disturb critical wildlife habitats or that such a requirement is not feasible or prudent.</li> </ul>
No. 2	<ul style="list-style-type: none"> <li>- Minimize impact of industrial development on key wetlands, waterfowl, and shorebirds. Measures will include restricting certain facility siting to the least environmentally sensitive portions of these wetlands. Specific measures include:               <ul style="list-style-type: none"> <li>a) Aerial photographs and maps identifying resource and site.</li> <li>b) Must locate site outside of Class IV, VI, VII wetlands unless there is no alternative.</li> <li>c) If located in classified wetlands, natural hydrology must be maintained and oil contamination contained.</li> <li>d) Draining and de-watering wetlands is prohibited.</li> </ul> </li> </ul>
No. 3	<ul style="list-style-type: none"> <li>- Impermeable lined dikes must contain onshore oil storage facilities and sewage treatment ponds with over 660-gallon (2,498 liter) capacity.</li> </ul>
No. 4	<ul style="list-style-type: none"> <li>- All development structures will be designed to allow natural movement of water and safe passage of fish and mammals unless such a design is found imprudent by the Division of Oil and Gas and the ADF&amp;G.</li> </ul>
No. 5	<ul style="list-style-type: none"> <li>- Exploration activities must be supported by ice and winter roads and trails, existing roads, and air services. Across tundra, travel will be allowed if no ill effects to vegetation are found, or during emergency conditions. Permission must be granted by the Division of Oil and Gas.</li> </ul>
No. 6	<ul style="list-style-type: none"> <li>- Facilities and surface transportation must be consolidated to the extent possible and prudent.</li> </ul>
No. 7	<ul style="list-style-type: none"> <li>- No restriction of public access or use of the leased area is allowed. A public right-of-way corridor can be established to maintain access. The immediate vicinity of drilling and production structures or related activity can be controlled against public access and use.</li> </ul>
No. 8	<ul style="list-style-type: none"> <li>- Environmental training programs for all personnel involved in exploration or development activities should be included in the proposed plan for the site of exploration or development.</li> <li>- A plan for continuing technical and environmental training for all personnel must be submitted and approved.</li> </ul>
No. 9	<ul style="list-style-type: none"> <li>- The lessee must hire Alaska residents to the extent possible if qualified and available. Provide an annual report of statistics for employee resident status and also a summary of measures being taken to encourage local employment in the past year.</li> </ul>
No. 10	<ul style="list-style-type: none"> <li>- Solid waste disposal on natural or artificial islands and into marine waters, rivers, lakes, and wetlands is prohibited.</li> </ul> <p><u>Discharges:</u></p>

No.	Restriction
No. 11	<ul style="list-style-type: none"> <li>a) Discharge of produced waters into freshwater bodies is prohibited. Disposal of produced waters in upland areas will be by subsurface disposal techniques; however, alternate disposal methods may be approved if determined that subsurface disposal techniques are not feasible or prudent.</li> <li>b) Discharge of drilling muds and cuttings to lakes, streams, rivers, or wetlands is prohibited. Uplands disposal of contaminated muds and cuttings may be made into approved sumps and reserve pits that are impermeable and otherwise fully contained through diking or other means.</li> <li>c) Discharge of produced waters into open or ice-covered marine water depths of less than 33 ft (10 m) is prohibited. The ADEC may approve discharges into waters greater than 33 ft (10 m) based on case-by-case review of environmental factors and consistency with the conditions of a development production phase general NPDES permit.</li> <li>d) Disposal of oil-based or oil-contaminated drilling muds to offshore waters and on-sea ice is prohibited.</li> <li>e) Winter exploratory drilling can store drilling muds and cuttings free of oil contamination on the ice surface if it is free of cracking. Discharges under sea ice "must be diluted to a concentration of 1 part disposal to 9 parts water."</li> <li>f) Summer exploration activities may discharge to open water, discharge "shall be diluted at a ratio of at least 9 parts seawater to 1 part drilling fluid. Drilling muds and cuttings generated from winter drilling may not be stockpiled at the drill site for open water disposal.</li> <li>g) Disposal of drilling muds and cuttings during development and production will be subject to the conditions of NPDES permits issued by the U.S. Environmental Protection Agency and State of Alaska Coastal Management Program consistency requirements.</li> </ul>
No. 12	- Exploration facilities will be temporary and must not be constructed of gravel.
No. 13	- Gravel from nearby abandoned drill pads and existing material sites must be used first.
No. 14	- Gravel mining sites for exploration activities must not be located within an active floodplain of watercourses.
No. 15	<ul style="list-style-type: none"> <li>- Borrow extraction from barrier islands is prohibited.</li> <li>- Borrow extraction from lagoons and nearshore areas is prohibited unless extraction will not adversely affect the environment or no alternative feasible and prudent source exist.</li> </ul>
No. 16	- Gravel mining sites will be restricted to the minimum number of upland or approved offshore sites needed to develop the field efficiently and with minimal environmental damage.
No. 17	<ul style="list-style-type: none"> <li>- Pipelines will be located to facilitate the containment and cleanup of spilled hydrocarbons.</li> <li>- Pipelines will be located on the up-slope side of roadways and construction pads, where feasible, unless determined that an alternative site is an acceptable environmental alternative.</li> </ul>
No. 18	<ul style="list-style-type: none"> <li>- All garbage and refuse will be incinerated.</li> <li>- Residue and nonburnables will be disposed of at an approved upland site.</li> <li>- No new solid fill disposal site will be approved during the exploratory phase.</li> </ul>
No. 19	- Stationary fuel storage facilities shall not be placed, nor vehicle refueling occur, within active floodplains; however, exceptions may be allowed during the permitting process for the refueling of slow-moving construction equipment.
No. 20	- Must conduct an inventory of archaeological and historical sites within the area affected by a proposed activity prior to construction or placement of any onshore structure, road, or facility.
No. 21	- Facilities will be removed and the site rehabilitated upon abandonment of drilling sites, roads, buildings, airstrips, or other facilities unless determined that such removal and rehabilitation is not in the state's interest.
No. 22	<p>Protection of anadromous streams:</p> <ul style="list-style-type: none"> <li>a) Alteration of river banks is prohibited unless approved by ADF&amp;G.</li> </ul>

No.	Restriction
	<ul style="list-style-type: none"> <li>b) Equipment must not be operated within willow stands except for approved stream crossings.</li> <li>c) Operation of equipment in open water areas of rivers and streams will be prohibited unless approved by ADF&amp;G.</li> <li>d) Bridges must be used as watercourse crossings whenever feasible. Culverts may be used only when bridges are shown not to be feasible or prudent. Must be approved by ADF&amp;G.</li> <li>e) Removal of freshwater or snow cover from fish-bearing rivers, streams, and natural lakes is prohibited from freezeup to breakup. Compaction of snow cover overlying fish-bearing water bodies will be prohibited except for approved, perpendicular crossings.</li> <li>f) Water intake pipes utilized for summer water removal from the river must be surrounded by a screened enclosure to prevent fish entrainment and impingement.</li> <li>g) Explosives must not be detonated within, beneath, or in close proximity to fish-bearing waters unless the water body is solidly frozen. Documented anadromous rivers include: the Colville, Ungnuvarik, and Kuparuk Rivers. This restriction specifies the pound charge of explosives to offset the distance from fish-bearing water bodies.</li> </ul>
No. 23	- Must ensure adequate supply of water is available for winter use through development of storage reservoirs and snow melting.
No. 24	<p>Minimize impacts on the Central Arctic Caribou Herd:</p> <ul style="list-style-type: none"> <li>a) Movement of equipment and personnel through the Kuparuk calving ground may be restricted between May 15 and June 25. Authorizations may be allowed on case-by-case basis for travel or equipment movement.</li> <li>b) Pipelines should be consolidated and must be constructed to allow safe passage of caribou.</li> </ul>
No. 25 No. 26	<ul style="list-style-type: none"> <li>- Routes of travel must avoid preferred polar bear denning habitat.</li> </ul> <p>Aircraft operations:</p> <ul style="list-style-type: none"> <li>a) From May 15 through September 30, aircraft must fly at altitudes of greater than 1,500 ft (457 m) or at a lateral distance of 1 mile (1.6 km) around barrier islands, lagoons, river deltas, and wetlands within 1 mile (1.6 km) of the Beaufort Sea coast.</li> <li>b) From May 15 to June 30, aircraft overflights within 30 miles (48 km) of the coast between Colville and Kuparuk Rivers must avoid caribou by an altitude of at least 1,500 ft (457 m) or lateral distance of 1 mile (1.6 km).</li> <li>c) Human safety will take precedence over aircraft restrictions.</li> </ul>
No. 27	- Surface use will be restricted to prevent unreasonable conflicts with local subsistence harvests.
No. 28	- Regulations require North Slope Borough approval for certain activities necessary for exploration and development. The state may not always accept the assertion of jurisdiction.
No. 29	- Lessee subject to the provisions of all valid coastal zone plans and ordinances.
No. 30	- Plans of operations for lease activities and specific permit applications subject to approval by the Corps or a Certificate of Reasonable Assurance from ADEC must be submitted simultaneously for state agency review and approval at least 60 days prior to the proposed conduct of such activities.

- Notes:
- ADEC = Alaska Department of Environmental Conservation
  - ADF&G = Alaska Department of Fish and Game
  - Corps = U.S. Army Engineer District, Alaska
  - ft = Feet
  - km = Kilometers
  - m = Meters
  - NPDES = National Pollutant Discharge and Elimination System





APPLICABLE STATE OF ALASKA  
AIR QUALITY REGULATIONS



**TABLE D-3**  
**APPLICABLE STATE OF ALASKA AIR QUALITY REGULATIONS FOR THE PROJECT**

Regulation	Title	Concerning
18 AAC 50.050	Incinerator Emission Standards	Visibility through the incinerator exhaust must not be reduced by more than 20% for more than 3 minutes in any 1 hour.
18 AAC 50.055	Industrial Processes and Fuel - Burning Equipment (Including boilers, heaters, waste heat recovery units, internal combustion engines, gas turbines, and flares)	<p>Visible emissions, excluding condensed water vapor, from an industrial process or fuel-burning equipment may not reduce visibility through the exhaust effluent by greater than 20% for a total of more than 3 minutes in any 1 hour except during startup, shutdown, soot blowing, grate cleaning, or other routine maintenance activities specified in an operating permit issued under Chapter 50. Reduction in visibility cannot exceed 20% for more than a total of 6 minutes in any 1 hour.</p> <p>Particulate matter emitted from an industrial process or fuel-burning equipment may not exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over 3 hours.</p> <p>Sulfur-compound emissions, expressed as sulfur dioxide, from an industrial process or from fuel-burning equipment may not exceed 500 ppm averaged over a period of 3 hours.</p> <p>Release of materials other than process emissions, products of combustion, or materials introduced to control pollutant emissions from a stack is prohibited unless approved in writing by the department.</p>
18 AAC 50.065	Open Burning	Open burning of liquid hydrocarbons produced during oil or gas well flow tests may occur only when there are no practical means available to recycle, reuse, or dispose of the fluids in a more environmentally acceptable manner. Open burning is not expected to be conducted at the Northstar facility. If open burning does occur, it will be conducted according to the limitations outlined in this section.
18 AAC 50.080	Ice Fog Standards	The department will, at its discretion, require a person who proposes to build or operate an industrial process, fuel-burning equipment, or incinerator in an area of potential ice fog to obtain a permit to reduce water emissions.
18 AAC 50.110	Air Pollution Prohibited	No person may permit any emission which is injurious to human health or welfare, animal or plant life, or property, or which would unreasonably interfere with the enjoyment of life or property.
18 AAC 50.205	Certification	The signature of the responsible official for the permitted facility must be included on any permit application, report, or compliance certification required by the department under a permit program established under AS 46.14 or Chapter 50. The signature must follow the statement "Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete." The official's signature

Regulation	Title	Concerning
18 AAC 50.210	Potential to Emit	<p>must be notarized when certifying a permit application or compliance certification.</p> <p>For the purpose of determining potential to emit, reductions of emissions, whether theorized, calculated, or measured, based on the effect of pollution control equipment or on limitations on the capacity of a facility to emit an air contaminant must be verifiable through monitoring, reporting, and recordkeeping as required by the department at its discretion.</p> <p>To determine whether a facility must have a permit, an owner or operator shall include in the calculation of a facility's potential to emit fugitive emissions of hazardous air contaminants, regulated pollutants at a PSD major source, and all air contaminants regulated for each source type regulated under the CAA, Sections 111 - 112.</p>
18 AAC 50.220	Enforceable Test Methods	<p>The department will, at its discretion, require an owner, operator, or permittee of a source to conduct air contaminant emission tests to determine compliance with AS 46.12 and Chapter 50.</p>
18 AAC 50.235	Unavoidable Emergencies and Malfunctions	<p>If an unavoidable emergency, malfunction, or non-routine repair causes emissions in excess of a technology-based emission standard, the owner, operator, or permittee shall follow the procedures outlined in this section.</p>
18 AAC 50.240	Excess Emissions	<p>The owner, operator, or permittee has the burden of proving that excess emissions were unavoidable in an enforcement action. Excess emissions determined to be unavoidable will be excused and are not subject to penalty.</p> <p>Excess emissions that present a potential threat to human health or safety or that the owner, operator, or permittee believes to be unavoidable must be reported to the department as soon as possible. Unless otherwise specified in the facility's permit, other excess emissions must be reported within 30 days after the end of the month during which the emissions occurred or as part of the next routine emission monitoring report, whichever is sooner.</p>
18 AAC 50.245	Air Episodes and Advisories	<p>The department will, at its discretion, declare an air episode and prescribe and publicize curtailment action if the concentration of an air contaminant in the ambient air has reached, or is likely in the immediate future to reach, any of the established concentrations.</p>
18 AAC 50.300	Construction Permits - Classifications	<p>A construction permit is required because the project will operate a facility classified as a PSD Major Source facility.</p>
18 AAC 50.310	Construction Permits - Applications	<p>An owner or operator required to obtain a construction permit under AS 46.14.130 (a) or who requests a construction permit under 18 AAC 50.305 shall submit an application to the department. The application must contain the general information described in (c) of this section and, to the extent that it is applicable to the proposed facility, the information required under (d) - (m) of this section.</p>

Regulation	Title	Concerning
18 AAC 50.315  18 AAC 50.320	Construction Permits - Review and Issuance  Construction Permits - Content and Duration	Within 60 days after receipt of a complete permit application and any additional information requested under AS 46.14.160(c), the department will make a preliminary permit decision.  The terms and conditions of a construction permit remain effective until modified or revoked by the department, regardless of any change in ownership of the facility or sources at the facility. The permittee's responsibilities may not be transferred without the department's written consent. The department will reopen a construction permit to require a new demonstration under 18 AAC 50.310(d)(3) if the construction permit requires the use of best available control technology and the permittee has not commenced substantial and continuous construction activity within 18 months after the permit was issued, or ceases substantial and continuous construction activity for 18 or more months before the approved construction or modification is complete.
18 AAC 50.325  18 AAC 50.335	Operating Permits - Classifications  Operating Permits - Application	The project as proposed is classified as a facility requiring an operating permit for the purposes of federal law because it has the potential to emit 100 tpy or more of a regulated air contaminant and because it is classified as a PSD Major Source.  To secure or renew an operating permit, other than a general operating permit, an owner or operator shall submit an application that contains the information required by this section. The application must be submitted to the department and, at the same time, to the regional administrator of the EPA, Region X. For an initial operating permit, the application must be submitted within the time required by AS 46.14.150(a).  The content of the application must: identify the location of the facility; list general emission information for all pollutants emitted; provide regulated source information; and include proposed permit terms, conditions, and compliance information. Other information must be provided to satisfy the requirements in 18 AAC 50.335, as necessary.
18 AAC 50.340	Operating Permits - Review and Issuance	The department will review for completeness an application within 60 days of receipt of the application and will inform the applicant that the application is either complete or incomplete. The department will evaluate a complete application to determine if a draft permit that meets the requirements of 18 AAC 50.345 and 18 AAC 50.350 can be developed. After the department evaluates a complete application and receives all necessary information, the department will make a preliminary decision and will provide public notice and an opportunity for public comment and hearing. After evaluating all comments received during the public comment period, the department will make a final decision on an application for an operating permit.
18 AAC 50.350	Operating Permits - Content	The department will include the information, terms, and conditions specified by this section in each new or renewed operating permit.

Notes: % = Percent

EPA = U.S. Environmental Protection Agency

AAC = Alaska Administrative Code  
AS = Alaska Statute  
CAA = Clean Air Act

ppm = Parts per million  
PSD = Prevention of Significant Deterioration  
tpy = Tons per year

APPENDIX E

TECHNICAL APPENDICES

Appendix E contains a listing of 24 technical or computational documents prepared by consultants retained by BP Exploration (Alaska) Inc. These documents have undergone review by the State Pipeline Office and have been modified as needed to meet engineering standards. These documents have been used as an information source for the design, construction, and installation of the onshore and offshore pipelines that connect Seal Island to existing onshore facilities.



## BPXA NORTHSTAR PIPELINE TECHNICAL AND CALCULATION NOTES

TECHNICAL NOTE OR CALCULATION NOTE	DOCUMENT TITLE	ISSUE DATE	INFORMATION OR REVIEW
CN 310	Pressure Design, Rev. 3	May 4, 1998	I
CN 320	Flow Analysis, Rev. 3	May 4, 1998	I
TN 331	Pipeline Design Basis, Rev. 1	May 4, 1998	R
TN 332	Limit Strain Criteria, Rev. 2	May 4, 1998	R
TN 340	Pigging, Valving and Leak Detection, Rev. 3	May 4, 1998	R
TN 350	Material Selection and Sourcing, Rev. 3	May 4, 1998	R
TN 370	Pipeline Design Summary, Rev. 2	May 4, 1998	I
TN 410	Ice Keel Protection, Rev. 3	May 4, 1998	R
TN 415	Strudel Scour Evaluation, Rev. 3	May 4, 1998	R
TN 420	Seal Island Approach, Rev. 3	May 4, 1998	R
CN 440	Cathodic Protection, Rev. 3	May 4, 1998	R
TN 450	Lagoon Permafrost, Rev. 3	May 4, 1998	R
TN 460	Pt. Storkersen Shore Approach, Rev. 3	May 4, 1998	R
TN 470	Trench and Pipe Stability Evaluation, Rev. 1	May 4, 1998	I
CN 510	VSM Evaluation, Rev. 3	May 4, 1998	R
CN 510 (Addendum)	Put River Crossing, Rev. 2	May 4, 1998	R
TN 530	Overland Pipeline Routing, Rev. 2	May 4, 1998	I
TN 540	Expansion Stress Analysis, Rev. 3	May 4, 1998	R
TN 660	Winter Test Trench Summary, Rev. 2	May 4, 1998	I
TN 720	Operations, Maintenance and Repair, Rev. 3	May 4, 1998	R
CN 730	Pipeline Tie-ins, Rev. 2	May 4, 1998	R

TECHNICAL NOTE OR CALCULATION NOTE	DOCUMENT TITLE	ISSUE DATE	INFORMATION OR REVIEW
TN 740	Pipeline Construction Plan, Rev. 3	May 4, 1998	R
TN 770	Pipeline Commissioning & Start-Up, Rev. 3	May 4, 1998	I
TN 830	Offshore Pipeline Route Options Evaluation, Rev. 4	May 4, 1998	I

Notes: I = Information in support of engineering and application

R = Reviewed by the State Pipeline Office in support of the engineering design base

## APPENDIX E

### TECHNICAL APPENDICES

The documents listed below are available for public review at 411 West Fourth Avenue, Suite 2C, Anchorage, Alaska, (907) 271-4336. The revisions listed below were issued, May 4, 1998.

#### CN 310 Pressure Design (Revision 3)

This report presents design calculations based on industry design codes used to determine the required pipe wall thickness as a function of operating pressure, grade of steel, pipe diameter, service requirements, (e.g., product carried, aboveground versus subsea pipeline, etc.).

#### CN 320 Flow Analysis (Revision 3)

This report presents the design calculations used to determine the pipeline diameters for the gas and oil lines. The calculations are based on various parameters which affect the flow of oil and gas in the pipelines (e.g., line length, product temperature, ambient temperature, soil thermal conductivity, insulation type and thickness, required discharge and receipt pressures, etc.).

#### TN 331 Pipeline Design Basis (Revision 1)

This report summarizes the most important design parameters for the Northstar project. Weather, oceanographic, and geotechnical data used in design considerations are described, as well as the physical environment and conditions (including ice). Design criteria are listed for the production island and pipeline designs.

#### TN 332 Limit Strain Criteria (Revision 2)

This report describes the basis for determining the structural integrity of the subsea pipeline design. Design criteria are developed for the pipe material and the weld metal. Maximum allowable soil displacements are determined, as well as the maximum safe induced bending strains for the operation and maximum and extreme ice keel events.

#### TN 340 Pigging, Valving, and Leak Detection (Revision 3)

This report describes the locations of the block valves and the type of leak detection system to be used on the Northstar pipelines. Also described are the types of internal inspection tools to be used in determining pipeline integrity and the frequency of "smart pigging" is tabulated. In addition, potential

spill volumes are calculated.

TN 350            Material Selection and Sourcing (Revision 3)

This report provides the specifications used by BPXA in establishing the quality assurance and control requirements for the project materials and sourcing activities.

TN 370            Pipeline Design Summary (Revision 2)

This report summarizes the status of the Northstar pipeline design at the end of the preliminary engineering phase of the project.

TN 410            Ice Keel Protection (Revision 3)

This report presents a detailed statistical evaluation of ice gouge data along the pipeline route. Then, based on the evaluation, the report determines the minimum depth of cover (i.e., trench depth required to avoid ice keel contact) for both the oil and gas pipelines. The report also discusses the effects of other ice phenomena on the seafloor (e.g., ice wallowing and ice pounding). Includes Nixon Geotech Ltd. Report on "Geotechnical, Input to Ice-Scour for BPXA Northstar Pipelines."

TN 415            Strudel Scour Evaluation (Revision 3)

This report presents the statistical basis for determining the maximum predicted scour depth (for a 100-year return period) along the pipeline route. A structural analysis is performed to assess the risk to the pipelines if exposed to the severest strudel scour occurring directly over the pipeline.

TN 420            Seal Island Approach (Revision 3)

This report presents structural calculations performed to determine forces required for a pull-tube installation. The report compares the stresses induced in the pipes for the pull-tube method and a "slack vertical curve" installation at the pipeline transition from the seafloor to aboveground at Seal Island.

CN 440            Cathodic Protection (Revision 3)

This report presents the calculations used to determine the mass and spacing of the sacrificial anodes for

cathodic protection on the subsea pipelines. The calculations are based on industry recommended practices for the design of subsea pipelines.

TN 450 Lagoon Permafrost (Revision 3)

This report presents the results of calculations for the maximum predicted long-term thaw settlement in the lagoon area. These calculations are based on the permafrost and soils samples obtained during the geotechnical borehole program. Associated pipeline strains are compared to these predictions. Includes Nixon Geotech Ltd. report on "Thaw Settlement Design for BPXA Northstar Pipelines."

TN 460 Pt. Storkersen Shore Approach (Revision 3)

This report presents design calculations showing the extent of potential pipe movement at the sea floor to onshore transition at the shore crossing.

TN 470 Trench and Pipe Stability Evaluation (Revision 1)

This report presents the calculated trench excavation volumes, based on the geotechnical data collected along the route. The size (volume) of the temporary soil stockpile is also determined from these calculations.

CN 510 VSM Evaluation (Revision 3)

This report presents the calculations used to determine the preliminary vertical support member (VSM) pile dimensions for the elevated onshore pipelines.

CN 510 (Addendum) Put River Crossing (Revision 2)

This report presents an appropriate structural system for the Put River crossing, assesses the environmental loads and their effects on such structure, and checks conformance with the appropriate engineering codes of practice.

TN 530 Overland Pipeline Routing (Revision 2)

This report compares the relative merits of several onshore pipeline routes based on environmental and operational evaluation criteria.

TN 540 Expansion Stress Analysis (Revision 3)

This report presents the calculations used to determine the optimum spacing of expansion loops and the location of VSM pilings for the onshore pipelines.

TN 660 Winter Test Trench Summary (Revision 2)

This report summarizes the information from a full-scale, field test trench program conducted during Winter 1996 for installing subsea pipelines in the project area. Trench production rates were determined, as well as confirming the viability of using conventional, land-based excavation backhoes for this purpose.

TN 720 Operations, Maintenance, and Repair (Revision 3)

This report describes the conditions under which the pipelines will be operated and maintained. A detailed description of the leak detection system operation is given, as well as the "smart pigging" schedule. Repair scenarios are considered for summer through winter seasonal weather and ice conditions, as well as possible repair techniques.

CN 730 Pipeline Tie-ins (Revision 2)

This report presents calculations concerning the generation of forces and pipe stresses during the installation of the pipelines at the island approach. Several lay configurations are considered, as well as a scenario for a mid-line tie-in during construction.

TN 740 Pipeline Construction Plan (Revision 3)

This report describes the winter off-ice construction techniques, including the types of equipment to be deployed. The construction sequence is detailed from trenching, to pipe weld and bundle make-up, through lowering-in and trench back-filling.

TN 770 Pipeline Commissioning and Startup (Revision 3)

This report summarizes procedures for pressure testing, dewatering, and pipeline drying before gas or oil is introduced into the pipelines. A checklist is provided describing activities to be completed before start-up.

TN 830 Offshore Pipeline Route Options Evaluation (Revision 4)

This report compares the relative merits of the Point Storkersen and West Dock offshore pipeline routes, based on technical, permit, and schedule evaluation criteria.

APPENDIX F

DRAFT NATIONAL POLLUTANT DISCHARGE  
ELIMINATION SYSTEM PERMIT



The U.S. Environmental Protection Agency (EPA) proposes to issue a National Pollutant Discharge Elimination System (NPDES) permit for the Beaufort Sea Oil and Gas Development/Northstar Project at Seal Island in Stefansson Sound (Beaufort Sea, Alaska). This Permit (No. AK-0052779) is required, pursuant to Section 301 of the Clean Water Act, because the project, as originally proposed, included six outfall discharges into marine waters of the United States. Discharges from the proposed facility originally consisted of: system flushwater, vapor compression distillate, fire suppression system test water, surface drainage, temporary discharges of domestic and sanitary wastewater, temporary construction dewatering, and seawater treatment plant filter backwash. Several of these streams were to be commingled prior to discharge. The NPDES Permit for these discharges specifies discharge limitations and monitoring requirements, as well as the requirements and methods for developing Best Management Practices Plans and Pollution Prevention requirements for these discharges. The Permit also specifies non-end-of-pipe monitoring, recording, and reporting requirements (e.g., Whole Effluent Toxicity testing, Quality Assurance, records retention, noncompliance reporting, etc.). Compliance responsibilities and other general provisions are also included in the Permit, in addition to a list of definitions and acronyms.

The Draft NPDES Permit was published as Appendix F to the Draft Environmental Impact Statement (EIS) in June 1998. Refer to that publication for the draft permit document. Since their publication in June 1998, the EPA has received public comment on the Draft EIS and Draft NPDES Permit. In addition, the project proponent has eliminated discharges of surface drainage and seawater treatment plant filter backwash. As a result, the Draft NPDES Permit has been revised and a Preliminary Final NPDES Permit is presented as Appendix O in this Final EIS.

APPENDIX G

NATIONAL POLLUTANT DISCHARGE  
ELIMINATION SYSTEM FACT SHEET

As a companion document to the National Pollutant Discharge Elimination System (NPDES) Permit (No. AK-0052779), the NPDES Fact Sheet and Technical Evaluation (referred to as "Fact Sheet") explains the nature of the six discharges originally proposed, the U.S. Environmental Protection Agency decisions on limiting pollutants in these discharges, and the regulatory and technical basis for these decisions. This Fact Sheet also includes discussions of the nature of the marine discharges, the local environment into which these discharges may be made, mixing zone requirements, and the rationale for monitoring requirements.

This NPDES Fact Sheet was published as Appendix G to the Draft Environmental Impact Statement (EIS) in June 1998. Although the project proponent has eliminated three of the discharges (two surface drainage discharges and a seawater treatment plant filter backwash discharge), the overall conclusions of this Fact Sheet remain valid with no need to revise the document. Please refer to the Draft EIS for the Fact Sheet in its complete form.

## APPENDIX H

### OCEAN DISCHARGE CRITERIA EVALUATION

The purpose of this Ocean Discharge Criteria Evaluation (ODCE) is to analyze proposed discharges described in the National Pollutant Discharge Elimination System (NPDES) Permit and Fact Sheet, with the intent to "prevent unreasonable degradation, including a prohibition of discharge, if necessary, to ensure this goal" (45 CFR 65942, October 3, 1980). Criteria used in the evaluation are set forth in 40 CFR 125, Subpart M as the U.S. Environmental Protection Agency's "Ocean Discharge Criteria" and identify specific issues to be addressed prior to NPDES Permit issuance. In particular, these criteria focus on "unreasonable degradation of the marine environment," as defined in 40 CFR 125.121(e). Receiving water and discharges are described in addition to neighboring biological communities, subsistence harvesting, and consistency with Coastal Zone Management requirements. Potential impacts of the discharges are described following discussions of transport, fate, and persistence of the discharged materials and of applicable marine water quality criteria. This ODCE concludes with a determination of degradation and a summary of discharge limits and monitoring recommendations.

The ODCE was published as Appendix H of the Draft Environmental Impact Statement (EIS) in June 1998. Following the publication, the project proponent eliminated three of six marine discharges. However, the overall conclusions of this ODCE remain valid with no requirement to revise the document. The U.S. Environmental Protection Agency finds that the discharges will not cause unreasonable degradation of the marine environment after application of the limitations, monitoring requirements, and conditions specified in the Preliminary Final NPDES Permit. The reader is referred to Appendix H of the Draft EIS (June 1998) for the ODCE in its complete form.

APPENDIX I

SECTION 103 EVALUATION

The Section 103 Evaluation is a document required by the Marine Protection, Research and Sanctuaries Act of 1972 for evaluating the transport and ocean disposal of dredged waste material. This appendix provides information about disposal of dredged material generated during offshore trenching activities for pipeline installation. The nature of the dredged material, such as grain size and potential contaminants, is compared with the substrate at the disposal sites. Disposal sites are evaluated using 11 criteria in 40 CFR 228.6 and five general criteria in 40 CFR 228.5. This document was submitted by the U.S. Army Engineer District, Alaska (Corps) to the U.S. Environmental Protection Agency (EPA) for the EPA's concurrence with the disposal site being considered under the Corps' permitting program.

The Section 103 Evaluation was published as Appendix I to the Draft Environmental Impact Statement (EIS) in June 1998. This document was not revised; the reader is referred to Appendix I of the Draft EIS for the Section 103 Evaluation in its complete form.

APPENDIX J

DRAFT UNDERGROUND INJECTION CONTROL PERMIT



The Draft Underground Injection Control (UIC) Permit defines both the general permit conditions and specific conditions for the proposed Northstar non-hazardous material injection wells. BP Exploration (Alaska) Inc.'s UIC Permit application indicates that two Class I (industrial) waste injection wells will be drilled from Seal Island to support offshore oil and gas development/production activities within the Northstar Unit. These injection wells will receive numerous waste streams with an estimated total volume of over 120 million barrels throughout the life of the Northstar project. The Draft UIC well permit conditions, as well as monitoring and reporting requirements and plugging and abandonment requirements, are presented in Appendix J of the June 1998 Draft Environmental Impact Statement (EIS). Appendix J also includes the Draft UIC Fact Sheet, which provides information supporting development of the Draft UIC Permit.

Since its publication in the June 1998 Draft EIS, the U.S. Environmental Protection Agency has received public comments, and the project proponent has added an additional waste stream (surface drainage) to be disposed down the waste injection well(s). As a result, the Draft UIC Permit has been revised and a Final UIC Permit is found as Appendix N in this Final EIS.

APPENDIX K

PUBLIC COMMENTS RECEIVED ON  
THE DRAFT ENVIRONMENTAL IMPACT STATEMENT

(The balance of Appendix K can be found under the subdirectory APPENDIX, filename APPEND-K.WPD)



This appendix presents comments received during the public comment period for the Northstar Development Project Draft Environmental Impact Statement (EIS) from June 1, 1998, through August 31, 1998, in accordance with 40 CFR 1506.9. On May 22, 1998, the U.S. Army Engineer District, Alaska (Corps) published a Notice of Availability for the Draft EIS (FR Volume 63, Number 99). Notices of availability were distributed to newspapers and mailing lists. The 60-day comment period officially began June 1, 1998, and was scheduled to end on July 30, 1998. The U.S. Environmental Protection Agency (EPA) published a Notice of Availability on June 12, 1998 (FR Volume 63, Number 113). In response to public requests for additional time to review the document, the Corps extended the comment period to August 31, 1998 (FR Volume 63, Number 159).

The seven volume Draft EIS was readily available to the public. Over 260 complete sets of the Draft EIS, and 548 copies of the Executive Summary (Volume 1) were mailed to interested parties for review. The Draft EIS was available to any member of the public requesting a copy. The Executive Summary could also be viewed on the Internet at <http://www.northstareis.com>. The complete document was also available at libraries and city offices in Anchorage, Barrow, Fairbanks, Juneau, Kaktovik, Nuiqsut, and Valdez. Further, the Corps and cooperating agencies held informal public workshops to familiarize interested parties with the document, and later held formal public hearings to receive testimony on the Draft EIS. These workshops and hearings are noted below.

<b>Public Workshops</b>		<b>Public Hearings</b>	
Nuiqsut	June 23, 1998	Barrow	July 13, 1998
Kaktovik	June 24, 1998	Kaktovik	July 14, 1998
Barrow	June 25, 1998	Fairbanks	July 16, 1998
Fairbanks	June 30, 1998	Anchorage	July 20, 1998
Anchorage	July 1, 1998	Nuiqsut	July 30, 1998

A total of 435 written letters were received from federal, state, and municipal agencies, as well as businesses, organizations, and individuals. Public testimony was received from approximately 105 individuals. A list of those providing written comments or oral testimony is contained in this appendix. To comply with NEPA, all comments received must be acknowledged, and substantive comments addressed. Most comment letters and complete public hearing transcripts are reprinted in this appendix. A number of form letters were received. A representative letter of each is reprinted here in its entirety, with a reference list of all the letters it represents.

For the most part, comments focused on the following issues:

- Cumulative Effects
- Noise Impacts to Wildlife
- Pipeline Integrity

- Oil Spill Prevention, Impact, and Response
- Interference with Subsistence
- General Support for the Project and its Economic Benefits
- General Opposition to the Project and its Environmental Impacts
- Request for Extension of Time for Public Review and Comments

Letters and public hearing transcripts received by the Corps during the public comment period were each assigned a code number (“F” for a federal recipient, and “S” for a state recipient). The index of letters is organized by commenter affiliation (see following index of Draft EIS Comment Letters and Public Hearing Transcripts) to assist the reader in locating letters of interest. Several letters addressed to the State of Alaska contained comments regarding the EIS. Some of these letters were forwarded to the lead and cooperating federal agencies by the State of Alaska for informational purposes and are included in Appendices K and L as letters S1 through S10. Comments pertaining to the EIS have been bracketed and responses to comments have been prepared. These letters will also be addressed by the State of Alaska, as appropriate, in their decision making process for this project. The letters and transcripts are printed in numerical order in this Appendix K. Responses to comments are provided in Appendix L to this Final EIS.

While the Inupiat Community of the Arctic Slope letter was not directly received by the lead and cooperating agencies, it was received indirectly by the North Slope Borough (letter F-420) and the State of Alaska (letter S-10). In recognition of their government to government responsibilities, the federal agencies acknowledge these comments which are presented in the Inupiat Community of the Arctic Slope letter, see Comments F420-77 through F420-84 in Appendix L.

**INDEX OF DRAFT EIS COMMENT LETTERS  
AND PUBLIC HEARING TRANSCRIPTS**

Letter Received From	Date Received by Corps	Letter No.
<b>Federal Agencies</b>		
Marine Mammal Commission, Robert J. Hofman, Ph.D., Scientific Program Director	8/5/98	F237
National Marine Fisheries Service, Steven Pennoyer, Administrator, Alaska Region, via Susan B. Fruchter, Acting NEPA Coordinator, US Department of Commerce	9/8/98	F424
Office of Energy Efficiency, Alternative Fuels, and Oil Analysis, Carmen Difiglio, Director	8/31/98	F398
U.S. Department of Commerce, NOAA, National Marine Fisheries Service, Steven T. Zimmerman, Assistant Regional Administrator for Protected Resources	7/16/98	F406
U.S. Department of Commerce, NOAA, National Marine Fisheries Service, Steven T. Zimmerman, Assistant Regional Administrator for Protected Resources,	7/17/98	F407
U.S. Department of Commerce, Susan B. Fruchter, Acting NEPA Coordinator	7/6/98	F16
U.S. Department of the Interior, Fish & Wildlife Service, David B. Allen, Regional Director	8/10/98	F302
U.S. Department of the Interior, Fish & Wildlife Service, Patrick Sousa, Field Supervisor	8/4/98	F239
U.S. Department of the Interior, Minerals Management Service, John Goll, Regional Director	9/1/98	F405
U.S. Department of the Interior, Office of Environmental Policy and Compliance, Willie R. Taylor, Director	9/11/98	F425
U.S. Environmental Protection Agency, Elbert Moore, Director, Office of Ecosystems and Communities	8/31/98	F421
<b>State Agencies</b>		
Alaska State Legislature, Gail Phillips, Mike Miller, Mark Hodgins, Drue Pearce	7/24/98	F77
Alaska State Legislature, Representative Joe Green	7/20/98	F2
Alaska State Legislature, Representative Pete Kelly	7/24/98	F98
Alaska State Legislature, Representative Tom Brice	7/29/98	F144
Alaska State Legislature, Representative Tom Brice	7/31/98	S4
Alaska State Senate, Senate Finance Committee, Drue Pearce	7/29/98	F125
Division of Governmental Coordination, Glenn Gray, Project Analyst	8/31/98	F422

Letter Received From	Date Received by Corps	Letter No.
University Alaska Fairbanks, Jay D. McKendrick, Professor of Agronomy Emeritus	9/1/98	F400
<b>Tribal Government (Inupiat)</b>		
Inupiat Community of the Arctic Slope, Don Long, President	9/24/98	S10
<b>Local Agencies</b>		
Anchorage Municipal Assembly	8/24/98	F349
City of Kaktovik, Lon Sonsalla, Mayor	8/18/98	F350
City of Nuiqsut, Leonard Lampe, Sr., Mayor	6/26/98	F20
Fairbanks North Star Borough Assembly, Hank Bartos, Presiding Officer	7/28/98	F123
Kodiak Island Borough, Jerome M. Selby, Borough Mayor	7/21/98	F11
Municipality of Anchorage, Rick Mystrom, Mayor	8/21/98	F307
North Slope Borough, Benjamin P. Nageak, Mayor	7/8/98	F24
North Slope Borough, Benjamin P. Nageak, Mayor	8/31/98	F420
<b>Business and Industry</b>		
Alaska Airlines, Bruce Bustamante, Regional Sales Director	7/20/98	F10
Alaska Crane & Lift Inspections, Inc., Heidi S. Paivio, President	7/21/98	F35
Alaska Fiber Star, LLC	7/20/98	F1
Alaska Miners Association, Inc., Steven C. Borell, P.E., Executive Director	7/20/98	F33
Alaska Oil and Gas Association, Judith Brady, Executive Director	7/17/98	F25
Alaska Oil and Gas Association, Judith Brady, Executive Director	7/20/98	S1
Alaska Railroad Corporation, Governor Bill Sheffield, President & CEO	7/20/98	F3
APC-Wood LLC, Paddy Mallan, General Manager	8/4/98	F278
Applied Microsystems, Inc., Ross Toole, President	8/3/98	F214
ARCO Alaska, Inc., James M. Short, Sr. Permit Coordinator	9/1/98	F397
Arctic Slope Regional Corporation, Jacob Adams, President	9/1/98	F396
Atlas Alaska, Inc., Ronald A. Gelbrich, President	7/20/98	F22
BP Exploration (Alaska) Inc., David A. Wallace, Business Manager, HSE Alaska	7/29/98	F255



Letter Received From	Date Received by Corps	Letter No.
BP Exploration (Alaska) Inc., Peter T. Hanley, Permitting Supervisor, HSE Alaska	7/31/98	F260
BP Exploration (Alaska) Inc., Peter T. Hanley, Permitting Supervisor, HSE, Alaska	8/27/98	F357
BP Exploration (Alaska) Inc., Peter T. Hanley, Permitting Supervisor, HSE-Alaska	7/16/98	F34
BP Exploration (Alaska) Inc., Peter T. Hanley, Permitting Supervisor, HSE-Alaska	9/1/98	F399
BP Exploration (Alaska) Inc., Peter T. Hanley, Permitting Supervisor, HSE-Alaska	8/31/98	F402
<b>Business and Industry (Cont.)</b>		
Capital Office Systems, Lewis Quinn, President	7/22/98	F36
Carlile Enterprises, Inc., Linda Leary, V.P. Sales	7/21/98	F17
Cash Barner Architects, Larry S. Cash, President	8/13/98	F270
Conam Construction Company, Robert W. Stinson, President	7/17/98	F6
Danzas, Leslye Langla, Vice President, Sales & Marketing	8/5/98	F236
Equipment Control, Sea-Land Freight Service, Inc., David T. Dorsey, Manager	7/21/98	F13
F. Robert Bell & Assoc., F. Robert Bell, P.E., L.S., Principal	7/21/98	F19
Golden Valley Electric Association Inc., Bradley Evans, Vice President, Energy Supply	7/30/98	F142
Great Northwest Inc., Howard A. Otis, President	8/31/98	F361
H.C. Price Co., David L. Matthews, General Manager	7/17/98	F30
Houston Contracting Company, Leon E. Van Wyhe, Vice President	7/16/98	F14
Impact Web Design, Scott L. Gere, President	7/31/98	F173
K&W Transportation, Mike Porter, Vice President	8/3/98	F198
Kanas Telecom, Inc., Cathy Bennett, Manager, Corporate Support	7/27/98	F78
Kanas Telecom, Inc., Don Stewart, Director of Engineering	7/27/98	F79
Kanas Telecom, Inc., Lowell A. Humphrey, General Manager	7/27/98	F81
Kanas Telecom, Inc., Steve Giani, Director of Sales & Marketing	7/27/98	F80
Ken Flynn Alaska, Ken Flynn	7/27/98	F83
Klukwan, Inc., Don Argetsinger, President	7/29/98	F145
Koniag, Inc., Uwe L. Gross, Chief Executive Officer	7/14/98	F23
Kuukpik Carlile Transportation, LLC, Thomas W. Hendrix, Jr.	7/23/98	F109

Letter Received From	Date Received by Corps	Letter No.
Nabors Alaska, James H. Denney, President	7/23/98	F118
NANA Corporate Services, Inc., James L. Rhyner, Operations Manager	7/23/98	F115
Northern Consulting Group, Robert P. Britch, P.E., President	7/24/98	F90
Northwest Strategies, Kevin Bruce, President	8/13/98	F269
Paul S. Glavinovich, Minerals Consultant	7/29/98	F124
Peak Oilfield Service Co., Michael O'Connor, President	7/28/98	F127
Peak Oilfield Service Co., Steven C. Roberts, Vice President	7/29/98	F126
Peak Oilfield Service Co., William L. McLaughlin, Vice President	8/6/98	F253
<b>Business and Industry (Cont.)</b>		
Petersburg Energy LLC, Dale R. Lindsey, Director	8/4/98	F234
Petro Marine Services, Dale R. Lindsey, President & CEO	8/5/98	F235
Prudhoe Bay Hotel, T. J. Bourdon, President	7/30/98	F143
R.A. Hughes & Associates, Richard A. Hughes, P.E., Mining Engineer	7/17/98	F28
Southeast Stevedoring Corporation, Cliff Taro, Chairman	7/31/98	F174
Steelfab, Richard Faulkner, President	7/23/98	F116
Tesoro, Ronald E. Noel	7/23/98	F119
Trustees for Alaska, Ann Rothe, Executive Director	9/1/98	F401
North Star Terminal and Stevedore Company, Jeff Bentz, President	7/21/98	F5
Webb's Business Consulting Services, William F. Webb	7/16/98	F7
<b>Public Hearing Transcripts</b>		
Public Hearing - Anchorage	7/20/98	F355
Public Hearing - Barrow	7/13/98	F352
Public Hearing - Fairbanks	7/16/98	F354
Public Hearing - Kaktovik	7/14/98	F353
Public Hearing - Nuiqsut	7/30/98	F356
<b>Groups</b>		

Letter Received From	Date Received by Corps	Letter No.
Alaska Council on Economic Education, Stephen L. Jackstadt, Executive Director	7/22/98	F120
Alaska Eskimo Whaling Commission, Maggie Ahmoagak, Executive Director	7/20/98	F32
Alaska Eskimo Whaling Commission, Maggie Ahmoagak, Executive Director	9/1/98	F403
Alaska's People, Kris N. Anderson, Executive Director	7/28/98	F40
Anchorage Chamber of Commerce, Joe Griffith, Chairman	7/28/98	F39
Greater Fairbanks Chamber of Commerce, Therese Sharp, Chairman of the Board	7/16/98	F12
Greenpeace, Dan Ritzman	8/20/98	F351
Greenpeace, Dan Ritzman	8/24/98	F358
Greenpeace, Dan Ritzman	8/19/98	S5
Greenpeace, Dan Ritzman	9/8/98	S7
Greenpeace, Dan Ritzman	9/1/98	F404
Greenpeace, Melanie Duchin	7/27/98	S3
<b>Groups (Cont.)</b>		
Greenpeace, Trustees for Alaska, Northern Alaska Environmental Center, Alaska Forum for Environmental Responsibility, Alaska Center for the Environment, Oilwatch Alaska	7/24/98	F18
Greenpeace, Trustees for Alaska, Northern Alaska Environmental Center, Alaska Forum for Environmental Responsibility, Alaska Center for the Environment, Oilwatch Alaska	6/29/98	F31
Greenpeace, Trustees for Alaska, Northern Alaska Environmental Center, Alaska Forum for Environmental Responsibility, Alaska Center for the Environment, Oilwatch Alaska	7/23/98	F121
Greenpeace, Trustees for Alaska, Northern Alaska Environmental Center, Alaska Forum for Environmental Responsibility, Alaska Center for the Environment, Oilwatch Alaska	7/23/98	S2
Northern Alaska Environmental Center, Sara Callaghan, Wilderness Campaign Coordinator	9/3/98	F413
Resource Development Council for Alaska, Inc., Ken Freeman, Executive Director	8/3/98	F213
Seattle Audubon Society, Georgia Conti, Conservation Committee	8/14/98	F277
<b>Individuals</b>		
Alcain, Aaron Kim	8/3/98	F195
Alexander, Larry	8/4/98	F229
Alexie, Percival C.	8/21/98	F313

Letter Received From	Date Received by Corps	Letter No.
Anderson, Larry	8/4/98	F222
Assyd, Ken	8/11/98	F264
August, Richard L.	8/11/98	F263
Auric, Brian	7/27/98	F88
Avery, Terry	7/28/98	F42
Baron, Jeff	8/11/98	F261
Barrett, Richard E.	7/27/98	F82
Barthuly, Gary	7/28/98	F54
Bazinet, Bill	7/24/98	F91
Bear, Stephen	9/1/98	F390
Bell, Robert M.	8/3/98	F208
Benson, Leah	7/30/98	F136
Bjork, Ben	8/24/98	F331
Individuals (Cont.)		
Blatchford, Thomas S.	9/1/98	F377
Blevins, Brian	8/24/98	F325
Blong, Mark	8/24/98	F346
Blume, Mark	8/4/98	F215
Blume, Mark	8/4/98	F216
Boling, James Douglas	9/1/98	F367
Boman, William M.	7/31/98	F167
Borce, Kari	7/31/98	F150
Boudreau, James	8/3/98	F212
Boudreau, James	9/1/98	F378
Bouraoui, Kemal X.	8/24/98	F348
Bratcher, William	8/10/98	F243
Bridgers, Mark T.	7/28/98	F53

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Brim, Reg	8/24/98	F326
Brookman, Gerald R.	7/28/98	F38
Brosnan, Edmund	7/28/98	F61
Brosnan, Edmund	7/28/98	F60
Brown, Tony	8/24/98	F339
Burns, Kate	7/31/98	F170
Bush, George P.	8/3/98	F185
Caissie, Art	7/28/98	F67
Callan, Ryan J.	8/4/98	F217
Campbell, Nancy Harris	8/19/98	F303
Capener, Chris A.	9/1/98	F374
Capener, Chris A.	9/1/98	F392
Carmichael, James E.	8/31/98	F362
Carver, Don	8/3/98	F191
Castillo, Richard B.	7/30/98	F139
<b>Individuals (Cont.)</b>		
Castoe, Willy	8/4/98	F224
Chall, Ronald	7/28/98	F56
Charles, Banford C.	7/27/98	F84
Cherven, John B., Jr.	9/1/98	F383
Christoffersen, Kris	8/18/98	F301
Closuit, Charles S.	8/21/98	F311
Coen, Ross	7/7/98	F27
Cone, Frances M.	8/20/98	F304
Cosgrove, Hilary	7/20/98	F21
Courtney, Clark	8/18/98	F294

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Cross, Joel	8/11/98	F267
Cunningham, Ann L.	8/21/98	F314
Dahl, Pat	8/10/98	F248
Dempsey, James E.	7/23/98	F111
Dubar, Bob	8/6/98	F259
Duclos, P.R.	9/1/98	F375
Dugan, Thomas	8/3/98	F180
Eaton, Harry A.	7/23/98	F103
Ekada, Nathan J.	7/28/98	F52
Elligan, Duane D.	7/30/98	F135
Elling, Lonnie	8/25/98	F335
Endreson, Harlan	8/18/98	F298
Erickson, Jeff	8/11/98	F262
Erickson, Steve	8/6/98	F258
Ewan, Hawling	7/31/98	F169
Felix, Jolene	8/3/98	F196
Fish, Jack G.	7/31/98	F162
Fisher, Christine	7/24/98	F37
Flenaugh, Jeff	8/24/98	F342
<b>Individuals (Cont.)</b>		
Flesher, Rob	8/18/98	F306
Fontaine, Chris	8/24/98	F343
France, John	8/18/98	F299
Fulz, Myron	8/3/98	F182
Gallagher, Megan	7/31/98	F172
Gallich, Jerry A.	7/28/98	F62
Gandrich-Brown, Marjorie A.	9/1/98	F386

Letter Received From	Date Received by Corps	Letter No.
Geiger, Gary	7/28/98	F51
Gigliotti, Michael A.	8/24/98	F328
Gilbert, Dan R.	8/11/98	F266
Gilbert, Richard	8/10/98	F256
Gire, Louis	7/31/98	F151
Givens, Michael G.	8/24/98	F330
Glaser, Karen	8/10/98	F252
Gnertiger, Eugene E.	8/3/98	F209
Goetz, William M.	7/28/98	F46
Goffredo, Anthony L.	7/27/98	F87
Goffredo, Anthony L.	8/18/98	F285
Grabowsky, Roland	7/31/98	F146
Grassman, Brian	8/18/98	F279
Griffin, David	8/3/98	F186
Griffith, Ned M.	7/28/98	F73
Hakins, James W.	8/3/98	F183
Hall, Curtis	8/3/98	F184
Harris, Linn V.	8/3/98	F176
Haskins, Branan	7/27/98	F85
Hatch, Wayne	7/23/98	F100
Hatch, Wayne	7/23/98	F113
Hebert, Lorraine	8/10/98	F251
<b>Individuals (Cont.)</b>		
Heckel, Lumir	8/4/98	F226
Herbert, Darlene R.	7/30/98	F140
Hines, Lloyd	8/11/98	F268

Letter Received From	Date Received by Corps	Letter No.
Hoble, Tom	9/3/98	F409
Hodnik, Andrew A.	8/24/98	F333
Hopen, Loren R.	8/24/98	F345
Hubler, Robert	9/4/98	F419
Hudson, R. L.	8/3/98	F205
Huff, Allen	8/3/98	F211
Huff, Jacqueline	7/31/98	F149
Hughes, Gary M.	8/3/98	F181
Humphrey, Charles A.	9/1/98	F394
Illegible (A. J.), PO Box 288, Copper Center, AK 99573	9/1/98	F369
Illegible (Alan), PO Box 74753, Fairbanks, AK 99707	8/4/98	F219
Illegible (Belfil), No Address	7/31/98	F163
Illegible (Berin), PO Box 89, Delta Junction, AK 99734	8/6/98	F245
Illegible (Bruce), No Address	8/18/98	F300
Illegible (Clyde, W.), Fairbanks	7/23/98	F114
Illegible (Dave), No Address	8/24/98	F334
Illegible (Debra), 698 DePauw Drive, Fairbanks, AK 99709	7/28/98	F65
Illegible (Eugene), PO Box 72705, Fairbanks, AK 99707	8/4/98	F232
Illegible (Frank), No Address	9/1/98	F381
Illegible (Frank), No Address	9/1/98	F393
Illegible (Gary D.), PO Box 80122, Fairbanks, AK 99708	9/4/98	F418
Illegible (Gerald), No Address	9/1/98	F384
Illegible (Gerald), PO Box 84893, Fairbanks, AK 99708	8/4/98	F221
Illegible (Ginger), 2111 Lakeview Drive, Fairbanks, AK 99701	7/24/98	F93
Illegible (Gordon), No Address	8/3/98	F179
Illegible (Hector), PO Box 72437, Fairbanks, AK 99707	8/24/98	F344
<b>Individuals (Cont.)</b>		



Letter Received From	Date Received by Corps	Letter No.
Illegible, No Address	8/21/98	F310
Illegible (Jeff), 1615 Madison Drive, Fairbanks, AK	8/18/98	F291
Illegible (John), No Address	9/4/98	F415
Illegible (John), PO Box 10026, Fairbanks, AK 99710	8/18/98	F281
Illegible (Jonathan), PO Box 55804, North Pole, AK 99705	7/23/98	F107
Illegible (Kyle), 7824 Chaimi Loop, Anchorage, AK 99504	8/4/98	F233
Illegible (Lou, F.), PO Box 71393, Fairbanks, AK 99707	7/29/98	F148
Illegible (Lyle, E.) PO Box 75213, Fairbanks, AK 99707	7/30/98	F131
Illegible (Malcolm), No Address	7/31/98	F165
Illegible (Mark), No Address	7/23/98	F104
Illegible (Michael), 530 Craig, Fairbanks, AK 99701	8/21/98	F316
Illegible (Michael), No Address	8/18/98	F283
Illegible (Richard), 300 Howland Road #32, Fairbanks, AK 99712	7/31/98	F158
Illegible (Robert), No Address	7/31/98	F164
Illegible (Staley), PO Box 55882, North Pole, AK 99705	7/27/98	F89
Illegible (Stu), 15100 Myst (?)	7/31/98	F160
Illegible (Stu), No Address	7/31/98	F159
Illegible (Stu), No Address	7/31/98	F161
Illegible (Stu), No Address	8/3/98	F193
Illegible (Sweet), 1941 Hilling Ave., Fairbanks, AK 99709	8/3/98	F190
Illegible (Tommy), 108 Apt B D Street, Fairbanks, AK	7/23/98	F122
Illegible (Walsh), No Address	8/3/98	F189
Illegible (Walter, Jr.), No Address	7/27/98	F86
Illegible, 1812 Woodbird Drive, Fairbanks, AK 99701	8/14/98	F272
Illegible, 2564 Riverview Drive, Fairbanks, AK 99709	7/30/98	F134
Illegible, 2680 Scotch Pine Dr., North Pole, AK 99705	8/24/98	F347

Letter Received From	Date Received by Corps	Letter No.
Illegible, 533 Longspur Loop, Fairbanks, AK 99709	7/21/98	F9
Illegible, Address Illegible (37 1/2)	8/24/98	F329
Illegible, No Address	9/1/98	F389
<b>Individuals (Cont.)</b>		
Illegible, No Address	8/3/98	F177
Illegible, No Address	8/4/98	F223
Illegible, No Address	8/10/98	F254
Illegible, No Address	8/18/98	F288
Illegible, No Address	8/21/98	F309
Illegible, No Address	9/1/98	F373
Illegible, No Address	9/1/98	F382
Illegible, No Address	9/1/98	F387
Illegible, PO Box 11, Ester, AK 99725	8/24/98	F337
Illegible, PO Box 22, Nulato, AK 99765	9/1/98	F364
Illegible, PO Box 56530, North Pole, AK 99705	7/31/98	F152
Illegible, PO Box 56737, North Pole, AK 99705	8/18/98	F286
Illegible, PO Box 73955, Fairbanks, AK 99707	7/28/98	F43
Illegible, PO Box 83263, Fairbanks, AK 99708	7/28/98	F63
Jenkins, Ed	8/21/98	F315
Jensen, Don	8/3/98	F194
John, Jeffrey	7/30/98	F138
Johnson, John M.	8/10/98	F242
Johnson, Lana	8/6/98	F238
Johnson, Maynard	9/1/98	F366
Johnson, Peter J.	7/31/98	F147
Keaster, Art	9/1/98	F365
Kemfou, Joshua H.	8/18/98	F292

Letter Received From	Date Received by Corps	Letter No.
Kennedy, Willard	7/24/98	F97
Killbear, Billy A.	8/24/98	F340
Kissinger, David	7/28/98	F64
Kline, Rick	9/1/98	F379
Koneczny, Mike	8/4/98	F230
Kopf, Mary E.	8/3/98	F210
<b>Individuals (Cont.)</b>		
Kozubal, Glen C.	6/25/98	F26
Kubanyu, Jim E.	8/4/98	F228
Kubanyu, Jim E.	7/23/98	F106
Kuyper, Robert	8/4/98	F218
Lamont, Sam	8/3/98	F199
Larson, Loren	8/3/98	F204
Larson, Wayne	8/18/98	F293
Lasater, James W.	8/20/98	F323
Leja, Anita	8/14/98	F276
Lindstrom, Dr. Jon E.	7/31/98	F175
Lindstrom, Dr. Jon E.	9/3/98	F411
Lindstrom, Dr. Jon E.	7/30/98	S8
Lindstrom, Dr. Jon E.	9/2/98	S9
Longman, J.R. Hank	9/1/98	F380
Loomis, Frank L.	7/30/98	F137
Low, Kim	8/10/98	F246
Mackey, E. J.	7/24/98	F94
Mackey, Edwin J.	9/1/98	F385
Malley, Charles	7/30/98	F130

Letter Received From	Date Received by Corps	Letter No.
Marcy, Robert C.	8/21/98	F322
Marick, Ivan J.	7/24/98	F92
Markley, Eddie R.	7/30/98	F132
Martin, Jeffrey	7/30/98	F141
Martin, Keith E.	8/4/98	F225
Martin, Keith E.	8/4/98	F231
Maysilles, Philip	7/28/98	F59
McCarthy, Allen	7/28/98	F70
McClellan, Robert	8/6/98	F257
McClellan, Robert	9/3/98	F410
<b>Individuals (Cont.)</b>		
McGraw, Michael P., Sr.	7/23/98	F99
McKinney, Jan	8/21/98	F321
McMillan, Kurt J.	7/28/98	F68
Mellard, Kelly	7/31/98	F155
Meyer, George	8/10/98	F250
Miller, David A.	7/31/98	F153
Miller, David A.	8/18/98	F287
Miller, James A.	7/28/98	F47
Miller, Mary E.	7/28/98	F45
Minchsliff, Tom	8/20/98	F318
Molyneux, Martin V.	8/20/98	F319
Moore, Tim D.	8/3/98	F178
Morn, Jerry	7/30/98	F129
Morrow, John Ben	9/1/98	F395
Nathanial, Everett	8/3/98	F202
Nelson, Bob	7/23/98	F105

Letter Received From	Date Received by Corps	Letter No.
Niese, Gary M.	8/18/98	F296
Nislander, Ruth	9/10/98	F423
No Signature, No Address	8/24/98	F341
Nyffler, George	7/28/98	F74
O'Brien, John C.	8/10/98	F241
Pardue, Larry	7/28/98	F69
Pardue, Larry	7/28/98	F66
Paskvan, Charles A.	8/3/98	F187
Pauleo, Anthony L.	9/1/98	F376
Peck, Arthur G.	7/31/98	F157
Penrod, F. Ross	9/1/98	F368
Pike, Paul	7/28/98	F55
Pilcher, Glen	7/28/98	F71
<b>Individuals (Cont.)</b>		
Plaquet, Jim	7/21/98	F4
Plaquet, Jim A.	8/14/98	F273
Pohland, William C.	8/24/98	F336
Pomeroy, Kevin	8/3/98	F206
Prentiss, Richard	8/18/98	F289
Purdy, Richard R.	7/28/98	F41
Reardon, Carla	7/31/98	F154
Reichmann, Richard	8/20/98	F317
Richardon, Peter	8/11/98	F265
Ridlington, Wesley S.	8/3/98	F200
Riley, Dale D.	7/30/98	F133
Robbins, Virgil	7/23/98	F102

Letter Received From	Date Received by Corps	Letter No.
Robinson, Richard	9/1/98	F372
Rooney, Robert E.	8/20/98	F320
Roybal, Tony	8/3/98	F201
Ryan, Janice	8/10/98	F247
Sackinger, William M.	8/27/98	F359
Sampson, Frank	8/18/98	F290
Schmidt, George R.	7/20/98	F8
Schneider, Jennifer	7/10/98	F29
Shaw, Monte	7/28/98	F48
Shipler, Daisy	7/28/98	F58
Shryock, Robert E.	8/24/98	F324
Siegel, Kassia R.	8/21/98	F308
Simpson, Gary	8/24/98	F338
Skilbred, Philip H.	8/3/98	F197
Smith, Billy M.	7/28/98	F49
Smith, Gary R.	8/20/98	F312
Southwood, Carl	8/14/98	F271
<b>Individuals (Cont.)</b>		
St. John, Kent	8/10/98	F249
Stacey, J. Dennis	7/21/98	F15
Staley, R. M.	7/23/98	F101
Staley, Stephanie	8/10/98	F240
Stanfield, Amy E.	8/17/98	F305
Stevens, Donna L.	7/31/98	F168
Stichler, Steven	8/18/98	F284
Stover, Gregory, Jr.	8/4/98	F220
Sunnyboy, Terrence, Sr.	8/14/98	F275

Letter Received From	Date Received by Corps	Letter No.
Sweeney, Patrick J.	7/28/98	F57
Swenson, Lawrence R.	7/24/98	F96
Swortfiguer, John Edgar	8/3/98	F188
Tansy, Douglas A.	7/28/98	F72
Taylor, Candice	9/1/98	F370
Tegerat, Paul M.	7/28/98	F50
Terry, William D.	9/11/98	F426
Thompson, Sharon N.	9/4/98	F416
Tilleson, Harold C.	9/3/98	F412
Todd, James	9/1/98	F363
Toland, Karen	9/3/98	F408
Tomatic, Leon F.	8/18/98	F297
Tompkins, Carl	8/24/98	F332
Tupper, Gary	7/23/98	F117
Tupper, Randy	7/24/98	F95
Tureme, Edward	8/3/98	F203
Valastro, Anna Maria	8/30/98	F360
Walker, James R.	7/23/98	F110
Walton, Charley	8/18/98	F295
Walton, Charley	9/1/98	F371
<b>Individuals (Cont.)</b>		
Ward, Laurie	7/30/98	F128
Watson, Joe, Jr.	8/18/98	F280
Watts, Mark A.	9/1/98	F388
Weed, Carl S.	7/28/98	F75
Weis, Robert	8/3/98	F207

Letter Received From	Date Received by Corps	Letter No.
Welle, Scott R.	7/31/98	F166
Welles, Charles	8/18/98	F282
White, Alex	7/31/98	F156
Wholecheese, Jack R.	7/28/98	F44
Wilkinson, R.	8/6/98	F244
Williams, Bill R.	8/3/98	F192
Williams, Kathie	9/1/98	F391
Williams, Michael J.	9/4/98	F414
Williams, Rhonda	7/23/98	F108
Williams, Wade	7/23/98	F112
Williams, Wade	8/24/98	F327
Winter, Frederick C.	7/28/98	F76
Wooten, Sandra K.	7/31/98	F171
Wright, Robert P.	9/4/98	F417
Yeath, Ramond	8/4/98	F227
Young, Joseph A.	8/14/98	F274

Note: Corps = U.S. Army Engineer District, Alaska